Secretarial Review Draft

Regulatory Impact Review/Environmental Assessment/Final Regulatory Flexibility Analysis For

Proposed Amendment 93 to the Fishery Management Plan for Groundfish of the Bering Sea and Aleutian Island Management Area

Modifying Amendment 80 Cooperative Formation Criteria



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Definitions for the Amendment 93 Analysis

The following list provides definitions for a list of selected words or phrases used in the analysis. Other terms are defined in the text of the analysis:

- <u>Amendment 80 cooperative (cooperative)</u> means a group of Amendment 80 QS holders who have chosen to fish cooperatively for Amendment 80 species under the requirements of the Amendment 80 Program and who have applied for and received a CQ permit issued by NMFS to catch a quantity of fish expressed as a portion of the ITAC and crab and halibut PSC limits. Under existing regulations, an Amendment 80 cooperative may only form if comprised of:
 - (1) At least three Amendment 80 QS holders each of whom may not have a ten percent or greater direct or indirect ownership interest in any of the other Amendment 80 QS holders;
 - (2) Any combination of at least nine Amendment 80 QS permits which would include Amendment 80 LLP/QS licenses;
 - (3) The applicants apply as a cooperative on a timely and complete application which is due to NMFS not later than November1 of the year prior to fishing.
- Amendment 80 cooperative quota (CQ) means the allocation of an exclusive harvest privilege of Amendment 80 species and the allocation of an exclusive use privilege for crab or halibut PSC in the BSAI to an Amendment 80 cooperative.
- <u>Amendment 80 fishery</u> means an Amendment 80 cooperative or the Amendment 80 limited access fishery.
- Amendment 80 Initial TAC (ITAC) means the portion of the TAC of Amendment 80 species allocated for use by the Amendment 80 sector and the BSAI trawl limited access sector. The ITAC is the amount remaining of an Amendment 80 species TAC after allocation to support the Western Alaska Community Development Quota Program (CDQ) and to support incidental catch allowances for the non-Amendment 80 sector.
- Amendment 80 limited access fishery (limited access fishery) means the fishery conducted in the BSAI by persons with Amendment 80 QS permits, Amendment 80 LLP licenses, or Amendment 80 vessels assigned to the Amendment 80 limited access fishery. All QS permits, LLP licenses, and vessels not assigned to a cooperative are assigned to the limited access fishery.
- Amendment 80 LLP license means:
 - (1) Any LLP license that is endorsed for groundfish in the Bering Sea subarea or Aleutian Islands subarea with a catcher/processor designation and that designates an Amendment 80 vessel in an approved application for Amendment 80 QS;
 - (2) Any LLP license that designates an Amendment 80 vessel at any time after the effective date of the Amendment 80 Program; and
 - (3) Any Amendment 80 LLP/OS license.

- Amendment 80 LLP/QS license means an LLP license originally assigned to an Amendment 80 vessel with an Amendment 80 QS permit assigned to that LLP license. NMFS assigns QS to an Amendment 80 LLP license in cases where a vessel has been lost or is permanently ineligible to reenter a fishery and the QS holder transfers the QS permit from the lost or ineligible vessel to the LLP license.
- <u>Amendment 80 Program</u> means the Program implemented to manage Amendment 80 species fisheries by limiting participation in these fisheries to eligible participants.
- <u>Amendment 80 QS holder (QS holder/vessel owner)</u> means a person who holds QS issued by NMFS and is eligible to assign vessels, QS permits, and LLP licenses to a cooperative of the limited access fishery on an annual basis.
- <u>Amendment 80 QS permit (QS permit)</u> means a permit issued by NMFS that designates the amount of Amendment 80 QS units derived from the Amendment 80 legal landings assigned to an Amendment 80 vessel for each Amendment 80 species in a management area.
- <u>Amendment 80 species</u> means the following species in the following regulatory areas: BSAI Atka mackerel; Aleutian Islands Pacific ocean perch (AI POP); BSAI flathead sole; BSAI Pacific cod; BSAI rock sole; and BSAI yellowfin sole
- <u>Amendment 80 sector</u> means those Amendment 80 QS holders who own Amendment 80 vessels and hold Amendment 80 LLP licenses, or those persons who hold Amendment 80 LLP/QS licenses.
- <u>Amendment 80 vessel (vessel)</u> means a non-AFA trawl catcher/processor vessel that is eligible to participate in the Amendment 80 Program. This includes only a vessel that:
 - (1) Is not listed as an AFA trawl catcher/processor under sections 208(e)(1) through (20) of the American Fisheries Act;
 - (2) Has been used to harvest with trawl gear and process not less than 150 mt of Atka mackerel, flathead sole, Pacific cod, Pacific ocean perch, rock sole, turbot, or yellowfin sole in the aggregate in the BSAI during the period from January 1, 1997, through December 31, 2002; or
 - (3) Any vessel that replaces a vessel designated under paragraphs (1) and (2) provided that vessel is also a non-AFA trawl catcher/processor.
- <u>American Fisheries Act (AFA) catcher vessel</u> means a catcher vessel permitted to harvest Bering Sea pollock under 50 CFR 679.4(1)(3).
- <u>AFA catcher/processor</u> means a catcher processor permitted to harvest Bering Sea pollock under 50 CFR 679.4(1)(2).
- <u>AFA LLP</u> means a permit initially issued by NMFS to qualified AFA catcher vessels and processor vessels. An AFA vessel must be named on a valid LLP permit authorizing that vessel to engage in trawling for pollock in the Bering Sea subarea. AFA LLPs can be transferred to another AFA vessel, however, may not be used on a non-AFA CV or a non-AFA CP (§679.4(k)(9)(iii)(3)).
- Bering Sea/Aleutian Islands Management Area (BSAI).
- **BSAI trawl limited access fishery** means the fishery conducted by non-Amendment 80 sector trawl vessels for the six Amendment 80 species. NMFS allocates a portion of the ITAC of several of the Amendment 80 species for harvest by these vessels.

• Groundfish Retention Standard (GRS) means a requirement that non-AFA trawl catcher/processors, including all Amendment 80 vessels must retain a minimum amount of groundfish products relative to the total groundfish caught. The GRS is phased in over a several year period. The GRS was established under Amendment 79 to the BSAI FMP and subsequently modified by the Amendment 80 Program.

• Gulf of Alaska (GOA).

- <u>LLP license</u> is a permit issued under the License Limitation Program. It is held by a person, not by a vessel. A license may be held that is not assigned to a vessel, but before the license can be used in a fishery, the vessel upon which the license will be fished must be named. Once a license is assigned to a vessel of appropriate size to engage in directed fishing in accordance with the endorsements of the LLP, the license holder is authorized to deploy that vessel, and the license must be physically on board the vessel when it is engaged in activities authorized by the license.
- <u>Prohibited Species Catch (PSC)</u> means the catch of those species that must, to the extent practicable, be avoided and may not be retained while directed fishing for groundfish. PSC species include Bristol Bay red king crab, *Chionoecetes opilio* (*C. opilio*, or snow crab), *C. bairdi* (Tanner crab), halibut, herring and salmon (Chinook and non-Chinook salmon). NMFS allocates CQ to cooperatives for Bristol Bay red king crab, snow crab, Tanner crab, and halibut in the BSAI.

EXECUTIVE SUMMARY

This Regulatory Impact Review (RIR) was prepared to meet the requirements of Presidential Executive Order 12866 for an evaluation of the benefits and costs of a proposed federal regulatory action. The proposed action is Amendment 93 to the Fishery Management Plan for Groundfish of the Bering Sea/Aleutian Island Management Area (BSAI FMP). Analysts have also drafted an environmental assessment (EA) and initial regulatory flexibility analysis (IRFA) to comply with the National Environmental Policy Act and the Regulatory Flexibility Act, respectively. The proposed action would amend the BSAI FMP and federal regulations related to the Amendment 80 Program.

The Amendment 80 Program is a limited access privilege program (LAPP) that allocates a quota share (QS) permit to a person, based on the catch history of six Amendment 80 species (Atka mackerel, Aleutian Islands Pacific ocean perch, flathead sole, Pacific cod, rock sole, and yellowfin sole) in the Bering Sea/Aleutian Islands Management Area (BSAI), from 1998 through 2004, for each of 28 originally qualifying non-AFA trawl catcher processors. In order to receive an allocation of QS, a person must own the catch history of an original qualifying non-AFA trawl catcher/processor that met specific criteria designated by Congress under the Capacity Reduction Program (CRP) in December 2004. The non-AFA trawl/catcher processors identified in the CRP comprise the Amendment 80 vessels. Each of the 28 originally qualifying vessels may be assigned a QS permit, if that vessel owner applies to receive QS. In cases where an original qualifying vessel has suffered an total or constructive loss, or is no longer eligible to receive a fishery endorsement (i.e., has been removed through a vessel buyback program, or has been reflagged as a foreign vessel), the QS permit may be assigned to a replacement vessel, or to the License Limitation Program (LLP) license initially assigned to that original qualifying vessel. Persons not applying for QS based on the catch history of original qualifying vessels, may use those vessels to continue to participate in fishing the Gulf of Alaska (GOA), but are prohibited from using those vessels as trawl vessels in the BSAI.

Once issued, QS permits and the Amendment 80 vessels or LLP licenses associated with those QS permits, may be assigned to either an Amendment 80 cooperative, or the Amendment 80 limited access fishery. A QS permit may not be subdivided and QS allocations of specific QS species may not be transferred or otherwise reassigned. In order to form a cooperative, a minimum of three unique QS holders, not affiliated through control or direct or indirect common ownership of greater than 10 percent, and a minimum of nine QS permits of the 28 QS permits that are eligible to be issued under the Amendment 80 Program, must be assigned to a cooperative.

NMFS assigns an exclusive harvest privilege for a specific portion of the total allowable catch (TAC) assigned to the Amendment 80 program for the six defined Amendment 80 species, as well as an exclusive allowance of a portion of the BSAI halibut, Bristol Bay red king crab, snow crab, and Tanner crab prohibited species catch (PSC), based on the aggregate QS held by all of the QS permits assigned to a cooperative. The annual

exclusive harvest privilege assigned to a cooperative is called cooperative quota (CQ). Persons who do not participate in a cooperative are assigned to the limited access fishery and compete for the TAC and PSC remaining, after apportionment to cooperatives. The potential benefits that vessel owners and operators may derive from participating in a cooperative (e.g., ending the "race for fish," thereby providing greater incentive to coordinate harvesting strategies and fish in a manner that is likely to be more economically profitable, less dangerous, and better able to respond to changing conditions on the fishing grounds), may not be realized by participants in the limited access fishery who do not receive an exclusive harvest allocation and PSC allowance. Participants in the limited access fishery may have little incentive to coordinate harvest strategies if they perceive a benefit to compete with other participants in a race for fish.

A minimum groundfish retention standard (GRS) applies to all Amendment 80 vessels fishing in the BSAI. The GRS was recommended by the North Pacific Fishery Management Council (Council) as Amendment 79 to the BSAI FMP in June 2003, published as a final rule in April 2007, and became effective in 2008. As originally recommended by the Council in April 2003, the GRS applied only to non-AFA trawl catcher/processors equal to or greater than 125 feet length overall (LOA). All Amendment 80 vessels over 125 feet would have been required to comply with the GRS recommended by the Council under Amendment 79. Under the GRS, Amendment 80 vessels are required to retain a minimum amount of all groundfish harvested. The percentage of catch that must be retained was 65 percent in 2008, increasing to 75 percent in 2009, 80 percent in 2010, and 85 percent in 2011 and all future years.

Amendment 80 modified the GRS as recommended under Amendment 79 in two critical ways. First, the GRS was extended to apply to all non-AFA trawl catcher/processors operating in the BSAI, without an exemption for vessels under 125 feet LOA. Therefore, all Amendment 80 vessels, regardless of size, are required to comply with the GRS. Second, Amendment 80 modified the method of calculating the total retention of catch that applies to cooperatives. Under the GRS as modified by Amendment 80, each vessel participating in the limited access fishery must ensure that it meets the GRS requirements, based on the amount of catch retained by that vessel. Vessels participating in a cooperative can aggregate the total catch and total retained catch by all vessels in the cooperative. Therefore, vessels with poorer retention rates may have an incentive to join a cooperative with other vessels that have a better retention rate and are able to offset the lower retention rate of those vessels. Vessels participating in the limited access fishery may face increasing difficulty meeting the GRS, if they cannot coordinate with other vessels. As the GRS increases, individual vessels with lower retention rates may have greater difficulty meeting the GRS, if they cannot coordinate with other vessels in a cooperative.

The proposed action was originally designed to modify the requirements that Amendment 80 QS holders would need to meet in order to form a harvesting cooperative and receive an exclusive allocation of Amendment 80 species and associated allowance for PSC that is incidentally taken during the prosecution of BSAI groundfish fisheries. This action

would not have modified the specific species that are allocated, the amount of the TAC allocated to the Amendment 80 Program, the specific percentage of catch that must be retained under the GRS, or how the GRS is calculated. Since the implementation of the Amendment 80 Program in 2008, some Amendment 80 sector participants have expressed concern that the current requirements to form a cooperative could actually impede Amendment 80 cooperative formation. This could disadvantage participants, and require them to continue to "race for fish", instead of receiving the benefits of cooperative relationships.

In February 2008, the Council requested a discussion and review of the criteria for establishing cooperatives under Amendment 80. NMFS and Council staff prepared a discussion paper that was presented to the Advisory Panel (AP) and Council in June 2008, to provide a qualitative review of the goals of the existing cooperative formation standards, current conditions in the fishery, and the implications of modifying cooperative formation criteria. The discussion paper reviewed criteria for the number of unique entities, the number of QS permits, and amount of assigned QS required for cooperative formation. The paper also examined the consequences of modifying one or more of the criteria, including interactive effects of those changes. The discussion paper noted that most participants in the Amendment 80 sector have successfully established a cooperative in the first year of the program.

In February 2009, the Council conducted an initial review of an action to modify Amendment 80 cooperative formation and released the amendment package for public review, which included the first five proposed alternatives and the GRS suboption described below. The Council asked staff to include the following information in the analysis, before releasing it for public review: expand the discussion of the purpose and need statement from Amendment 79 and Amendment 80; include 2008 catch data from the Amendment 80 cooperative separate from Amendment 80 limit access fishery; expand the discussion of GRS implementation and performance, including GRS retention by vessel size; and expand discussion of cooperative requirements under other LAPPs. NMFS staff modified the analysis and the Council scheduled final action on Amendment 93 for April 2009. While the AP considered Amendment 93, the Council did not take final action in April 2009, due to time constraints.

In October 2009, NMFS requested that the Council recommend an additional alternative to the Amendment 93 analysis, after reviewing the Council's purpose and need statement and the suite of alternatives being considered. NMFS proposed that the Council include an alternative (Alternative 6) that requires a cooperative to accept any person otherwise eligible to participate in a cooperative, subject to the same terms and conditions that apply to all other members of the cooperative. The Council concurred with NMFS' recommendation and included an additional alternative into the Amendment 93 analysis in October 2009. The Council also recommended that the Amendment 93 analysis be revised and be made available for a subsequent public review, prior to final action, to allow additional consideration of the potential impacts of this new alternative.

In December 2010, the Council recommended an additional suboption to allow a cooperative to form with two unique persons and QS permits, and a suboption applicable under all alternatives that would require that a person assign QS permits either to a cooperative or the limited access fishery, but not both during a calendar year. Final action was scheduled for February 2010. The Council selected its preferred alternative in February 2010.

At its April 2010 meeting, the Council requested that NMFS report on the status of monitoring, enforcing, and prosecuting the GRS program. In June 2010, NMFS provided the Council a preliminary assessment of the GRS program that raised two key concerns to the Council. First, NMFS had implemented a different methodology for monitoring and enforcing annual retention standards in regulations implementing the GRS than that used in the Amendment 79 analysis to establish the GRS. The regulatory method underestimates retention rates when compared to the method used to calculate historic retention rates. The second concern, involved the difficulties of effectively enforcing and prosecuting the GRS for individual vessels, a single cooperative, or multiple cooperatives.

In June 2010, the Council recommended two GRS actions based on the concerns raised by NMFS and public testimony. First, the Council recommended that NMFS initiate an emergency rule to suspend the application of the GRS. Second, the Council recommended initiating an analysis that would review potential permanent changes to the GRS, including removing the specific regulatory requirements to meet a GRS. On December 15, 2010, NMFS published an emergency rule exempting Amendment 80 vessels and cooperatives from GRS regulations effective during 2010 and 2011 (75 FR 78172). An extension of this emergency action was published and will be effective until December 17, 2011 (76 FR 31881). A proposed rule to remove the GRS program from regulation and replace it with an annual groundfish retention report is under development.

Purpose and Need and Alternatives

In June 2008, the Council adopted a draft purpose and need statement and recommended alternatives that would modify the existing cooperative formation standards for the Amendment 80 sector. That purpose and need statement as amended in October 2009 and December 2010 is shown in the table.

Purpose and Need

Most participants in the Amendment 80 sector have successfully established a cooperative in the first year of the program. However, some participants have expressed concern that over the long term, cooperative formation standards may disadvantage them, and they may be constrained from establishing cooperative relationships, receiving an exclusive annual harvest allocation, and ending the "race for fish." Smaller vessel owners with limited QS are likely to have weakened negotiating leverage as the groundfish retention standard (GRS) increases if they cannot be competitive in the limited access fishery and options in the Gulf of Alaska (GOA) are not viable. Participants of any size will find it difficult to receive the benefits of cooperative management if they cannot reach agreement on negotiated terms and the limited access fishery is an unattractive outside option, or a cooperative is able to derive some benefit from forcing an entity into the limited access fishery.

Relaxing cooperative formation standards either by reducing the number of quota share (QS) permits that must be assigned, or the number of owners required, or by requiring that any otherwise eligible member be accepted by a cooperative subject to the same terms and conditions as other members could: (1) provide additional opportunities to QS holders to form cooperatives, because more relationships are possible; (2) diminish the negotiating leverage of vessel owners who may be necessary to meet the threshold requirements under more stringent cooperative formation standards; (3) reduce the potential risk of any one company being unable to negotiate settlement and be able to fish only in the limited access fishery; and (4) reduce the incentive for members of a cooperative to attempt to create conditions that are unfavorable for certain fishery participants to form a cooperative.

The alternatives recommended by the Council and addressed in this analysis, including the preferred alternative selected by the Council, are listed below:

- <u>Alternative 1</u>: Status quo. A minimum of three unique QS holders holding at least nine QS permits are required to form a cooperative.
- <u>Alternative 2</u>: Reduce the number of unique QS holders required to form a cooperative from three to two or one unique QS holder, maintaining a nine QS permit minimum.
- <u>Alternative 3</u>: Reduce the number of QS permits required to form a cooperative from the existing 9 permits to some lower range (e.g., three permits to the 8 permits), maintaining a three unique QS holder minimum.
- Alternative 4: Reduce both the number of unique QS holders and the number of QS permits required to form a cooperative (combination of Alternatives 2 and 3 above). Preferred Alternative: Two unique QS holders and seven QS permits
- <u>Alternative 5</u>: Allow a cooperative to form with a minimum of three unique QS holders, holding at least nine QS permits (status quo), <u>or</u> a single or collective group of entities that represent 20 percent, 25 percent, or 30 percent of the sector QS.

- <u>Alternative 6</u>: Require that a cooperative accept all members of a cooperative who are otherwise eligible to join a cooperative subject to the same terms and conditions as all other members.
 - <u>GRS Suboption</u> (Applicable to all Alternatives): The GRS shall be applied in aggregate, to all cooperatives, if this calculation meets or exceeds the GRS requirement.
 - <u>QS Assignment Suboption</u> (Applicable to all Alternatives): A QS holder must assign all QS permits either to a cooperative or the limited access fishery. The provision would not apply until the second fishing year after a final rule becomes effective.

As noted in the Executive Summary for this analysis, the Council recommended removing the GRS program from regulation at their June 2010 meeting. Instead the Council recommended a non-regulatory approach to ensure that the non-AFA trawl C/P sector operating in the BSAI maintain the improvements in retention rate achieved under the GRS program. If implemented, the regulatory amendment to remove the GRS program would instead require Amendment 80 cooperatives to annually report their retention performance to the Council. Therefore, the GRS Suboption under the alternatives recommended by the Council does not reflect this action. The Council's intent under Amendment 93 is to encourage greater participation in harvesting cooperatives. Even though the GRS program will be removed from regulation, an incentive still exists for Amendment 80 participants to join a cooperative as the Council continues to explore alternatives to the GRS program for future consideration.

Under Alternative 3, the analysis has suboptions for 3, 6, 7, and 8 QS permits. Under Alternative 4, the suboptions include a range of combinations from the most restrictive cooperative formation standard, other than the status quo alternative, (i.e., two QS holders and eight QS permits), to the least restrictive (i.e., one QS holder and three QS permits).

Under Alternative 5, it is possible to form a cooperative either by meeting the existing requirements (i.e., three unique QS holders and nine QS permits) or by a single person, or group of people, meeting a minimum level of QS. If a cooperative is formed by a person or persons meeting the minimum QS holding requirement, other participants could choose to form a cooperative under the existing cooperative formation standards. Under the suboption where 30 percent of the QS must be assigned to a cooperative in order for it to form, no more than one person could qualify to form a cooperative as a single company under that suboption. The existing limitations that no person may hold more than 30 percent of the Amendment 80 QS pool, unless that person held the catch history of qualifying vessels prior to final action by the Council in June 2006 (50 CFR 679.92(a)), and the prohibition on the severability of QS from the permit to which it is assigned (50 CFR 679.90(a)), effectively limits all but one company from being able to hold 30 percent or more of the QS pool. However, it would still be possible for more

than one company to combine their QS holdings in order to meet the minimum QS holding standards of 30 percent, 25 percent, or 20 percent of the Amendment 80 QS pool.

Under Alternative 6, an otherwise eligible person could join any cooperative that has formed under the existing cooperative formation standards (i.e., three unique QS holders and nine QS permits), subject to the same terms and conditions that are applicable to all other cooperative members. This alternative would not directly modify the cooperative formation standards, but would allow persons to establish cooperative relationships if the limited access fishery option was not acceptable to that person and they are willing to meet the terms and conditions applicable to all other members of the cooperative.

The GRS suboption could be applied to any of the alternatives. It would not specifically modify the criteria to form a cooperative, but would modify the way in which the GRS is applied to cooperatives, once they have formed. Presumably, allowing the GRS to be aggregated across cooperatives could reduce some of the potentially adverse consequences for vessel operators that may be disadvantaged if the cooperative standards are modified. During an initial review in February 2009, the Council recommended incorporating an aggregated GRS as a suboption. The Council noted that aggregating the GRS among cooperatives as a "stand alone" alternative did not appear to conform to the purpose and need statement adopted by the Council. The Council's purpose and need statement specifically addressed cooperative formation standards, not the method used to compute the GRS. Because this suboption does not directly address cooperative formation standards, it is not analyzed directly with the other alternatives or suboptions in this analysis. The analysis does contain a general discussion of the effects and management and enforcement of this suboption in Section 2 of this analysis.

The QS assignment option would prohibit QS holders from assigning their QS permits to one or more cooperatives and the limited access fishery during the same calendar year. This option would not modify cooperative formation standards, but would reduce the incentive of QS holders to exclude any other QS holder from joining a cooperative and using one or more of their vessels to fish in the limited access fishery. Because QS permits and LLP licensees are required to be assigned to specific vessels, this suboption would effectively require that a QS holder also assign all Amendment 80 vessels and licenses to one or more cooperative or the limited access fishery. This provision of the preferred alternative, selected by the Council, would not apply until the second fishing year after a final rule becomes effective. The analysis does contain a general discussion of the effects and management and enforcement of this suboption in Section 2 of this analysis.

The Amendment 80 fleet is comprised of a maximum of 28 eligible QS permits and vessels. Therefore, NMFS can determine the maximum number of cooperatives that could form under Alternatives 1 through 5, as described in Table E-1. If an alternative only modifies one specific cooperative formation standard (e.g., Alternative 2 modifies the number of unique owners required, but not the number of QS permits), the status quo

requirement is applied to all other cooperative formation standards. alternative selected by the Council is shown in bold in Table E-1.	The preferred

Table E-1 Alternatives, Suboptions, and Implications for Cooperative Formation

Alternative	Suboption	Minimum number of unique QS holders required	Minimum number of QS permits required	Maximum number of cooperatives that could form if all QS holders apply	Maximum number of cooperatives that could form with current QS holders
Alternative 1: Status	N/A	3	9	3	3
Alternative 2: Fewer unique QS holders	Suboption 1: 2 unique QS holders	2	9	3	3
	Suboption 2: 1 unique QS owner	1	9	3	3
Alternative 3: Fewer QS permits	Suboption 1: 8 QS permits	3	8	3	3
	Suboption 2: 7 QS permits	3	7	4	4
	Suboption 3: 6 QS permits	3	6	4	4
	Suboption 4: 3 QS permits	3	3	9	9
Alternative 4: Fewer unique QS holders and Fewer QS	Suboption 1: 2 QS holders, 7 QS permits	2	7	4	3
permits	Suboption 2: 2 QS holders, 6 QS permits	2	6	4	4
	Suboption 3: 2 QS owners, 3 QS permits	2	3	9	9
	Suboption 4: 1 QS holder, 6 QS permits	1	6	4	4
	Suboption 5: 1 QS holder, 3 QS permits	1	3	9	9
Alternative 5: Status quo or Minimum QS	Suboption 1: 30 % of QS pool	3 or 1	N/A	3	3 or 3
holding to form cooperative	Suboption 2: 25 % of QS pool	3 or 1	N/A	4	3 or 4
_	Suboption 3: 20 % of QS pool	3 or 1	N/A	5	3 or 5
Alternative 6: Accept all members	N/A	3	9	3	3

Table E-2 describes the current ownership structure within the Amendment 80 sector, as well as the amount of QS that each unique QS holder is assigned. As part of this analysis, vessel owners have provided detailed information concerning the ownership status of the various vessels and QS permits. Table E-2 describes the specific QS holders that could form a cooperative under one or more of the alternatives and suboptions described in Table E-1 independent of any other QS holder. As noted in Table E-2, not all of the potentially eligible recipients of QS have chosen to apply for QS. One potentially eligible QS permit could be assigned based on the historical catch history of the *F/V Golden Fleece*. Additional discussion of possible reasons why this QS holder

may have chosen not to participate in the Amendment 80 Program is provided in Section 2 of the analysis. Collectively, 99.9 percent of the total available Amendment 80 QS pool has been allocated to eligible participants.

Table E-2 also denotes in italics the original qualifying vessels that are no longer active in the Amendment 80 fleet due to a loss (i.e., F/V Alaska Ranger, F/V Arctic Sole, and F/V Prosperity), or because those vessels have been reflagged under foreign ownership and are no longer eligible to reenter U.S. fisheries (i.e., F/V Bering Enterprise).

Table E-2 also describes those vessels that are considered to be "smaller vessels" for purposes of this analysis. There is not a clear distinction between large and small vessels in the Amendment 80 fleet. The final Environmental Assessment/ Regulatory Impact Review/Final Regulatory Flexibility Analysis (EA/RIR/FRFA) prepared for Amendment 80 (Amendment 80 Analysis) indicated that vessels of smaller sizes had a lower retention rate than larger vessels. For purposes of this analysis, smaller vessels refers to vessels less than 144 feet LOA, because the available data suggests that those vessels may have more difficulty achieving GRS requirements relative to larger vessels. Based on the Amendment 80 analysis, vessels less than 144 feet LOA retained 63 percent of their total catch during 1995 through 2003. This is slightly less than the GRS rate in 2008 of 65 percent. The retention rates by vessels under 144 feet LOA during this time frame may not reflect current retention rates, particularly for vessels targeting specific species with higher retention rates, or under cooperative management. The 144 foot LOA limit provides some indication of the relative size of vessels that may need to make substantial adjustments to accommodate increasing retention requirements, and provides a useful focal point for this analysis.

Table E-3 shows the assignment of vessels and QS permits associated with LLP licenses of various QS holders and their vessels in the 2008 through 2010 Amendment 80 fisheries.

Table E- 2 Amendment 80 Vessels, Owners, QS Holdings, and their Ability to Independently form Cooperatives under the Proposed Alternatives and Suboptions

Owner ₁	Amendment 80 Vessel(s)/LLPs with length overall (LOA) ₂	Percentage of aggregate QS pool held	Alternatives and Suboptions under which a cooperative could be formed independent of other QS holders
Fishing Company of Alaska (FCA), Inc. (Management entity for owner)	Alaska Juris (238 ft) Alaska Ranger ₃ (203 ft -QS assigned to LLP license derived from vessel) Alaska Spirit (221 ft) Alaska Victory (227 ft) Alaska Voyager (228 ft) Alaska Warrior (215 ft)	35.9	Alternative 4: Suboptions 4 & 5 Alternative 5: All Suboptions
United States Seafoods, LLC. (Management entity for owners)	Ocean Alaska ₄ (124 ft) Alliance (124 ft) Legacy (132 ft) Prosperity (138 ft - QS assigned to LLP license derived from vessel) Seafreeze Alaska (296 ft)	9.6	Alternative 4: Suboption 5
Iquiqui U.S., LLC	Arica (186 ft) Cape Horn (158 ft) Rebecca Irene (140 ft) Tremont (131 ft) Unimak (185 ft)	16.9	Alternative 4: Suboption 5
O'Hara Corporation	Bering Enterprise ₅ (183 ft - QS assigned to LLP derived from vessel) Constellation (150 ft) Defender (124 ft) Enterprise (132 ft) Harvester Enterprise (188 ft)	13.1	Alternative 4: Suboption 5
Fishermen's Finest (Management Entity for owners)	American No. 1 (160 ft) U.S. Intrepid (185 ft)	8.1	None
Cascade Fishing, Inc. (Management Entity for owners)	Seafisher (230 ft)	8.1	None
Ocean Peace	Ocean Peace (219 ft)	6.0	None
Jubilee Fisheries	Vaerdal (124 ft)	1.9	None
Arctic Sole Seafoods	Ocean Cape (122 ft - QS assigned to LLP derived from originally qualifying vessel <i>Arctic Rose</i>)	0.3	None
Golden Fleece	Golden Fleece (124 ft)	0.1	N/A QS permit has not been issued.

¹ Ownership data are derived from multiple sources, including information provided on Amendment 80 QS applications, Restricted Access Management (RAM) LLP database (http://www.alaskafisheries.noaa.gov/ram/llp.htm#list), Groundfish Forum (http://www.groundfishforum.org), and

personal communications with Dave Benson (Trident), Bill Orr (Iquiqui U.S., LLC), Susan Robinson (Fishermen's Finest), Mike Szymanski (FCA), and Dave Wood (U.S. Seafood). Most owners designate subsidiary corporations to own the vessels. In turn, those subsidiary corporations are wholly owned by the owner.

- 2 LOA data derived from RAM LLP license database (see URL above). These data indicate the maximum LOA of the vessel that may use the LLP originally issued for that vessel. Vessel lengths listed in the LLP database may differ from vessel lengths listed in USCG Vessel Documentation files.
- 3 Vessels that are no longer active in the Amendment 80 sector due to an actual total loss, constructive total loss, or permanent ineligibility to receive a U.S. Fishery Endorsement under 46 USC 12108 are noted in italics.
 - 4 Vessels considered to be smaller vessels for purposes of this analysis are noted in bold text.
- 5 The *Bering Enterprise* LLP license is currently held by Trident Seafoods, Inc., but will be assigned to O'Hara Corporation in 2010 (Dave Benson, Pers. Comm.). Because this transaction is likely to occur, the QS assigned to the *Bering Enterprise* LLP license is considered to be assigned to the O'Hara Corporation for purposes of this analysis.

Table E- 3 Participation in 2008, 2009, and 2010 Amendment 80 fisheries

Year and Fishery	Vessel Owner	Vessels/QS permits	Percent of Amendment 80 QS Pool
2008 Amendment 80 limited access fishery participants	FCA	Alaska Juris Alaska Ranger ₁ Alaska Spirit	
		Alaska Victory Alaska Voyager Alaska Warrior	36.5 %
	U.S. Seafoods	Ocean Alaska	
2009 Amendment 80	Arctic Sole Seafoods, Inc.	Ocean Cape	
limited access fishery participants	FCA	Alaska Juris Alaska Ranger Alaska Spirit Alaska Victory Alaska Voyager Alaska Warrior	36.7 %
	U.S. Seafoods	Ocean Alaska	
2010 Amendment 80	Arctic Sole Seafoods, Inc.	Ocean Cape	
limited access fishery participants	FCA	Alaska Juris Alaska Ranger	
		Alaska Spirit Alaska Victory Alaska Voyager Alaska Warrior	37.0 %
	U.S. Seafoods	Ocean Alaska	
	Trident Seafoods	Bering Enterprise	
2008 and 2009 Amendment 80 cooperative participants	U.S. Seafoods	Alliance Legacy Prosperity Seafreeze Alaska	
	Iquiqui U.S., LLC	Arica Cape Horn Rebecca Irene Tremont Unimak	63.5 % (2008)
	O'Hara Corporation	Constellation Defender Enterprise	63.3 % (2009)
	Fishermen's Finest	American No. 1	

Year and Fishery	Vessel Owner	Vessels/QS permits	Percent of Amendment 80 QS Pool
		U.S. Intrepid	
	Cascade Fishing, Inc.	Seafisher	
	Ocean Peace	Ocean Peace	
	Jubilee Fisheries	Vaerdal	
2010 Amendment 80	U.S. Seafoods	Alliance	
cooperative participants		Legacy Prosperity Seafreeze Alaska	
	Iquiqui U.S., LLC	Arica Cape Horn Rebecca Irene Tremont Unimak	
	O'Hara Corporation	Constellation Defender Enterprise Harvester Enterprise	63.0 % (2010)
	Fishermen's Finest	American No. 1 U.S. Intrepid	
	Cascade Fishing, Inc.	Seafisher	
	Ocean Peace	Ocean Peace	
	Jubilee Fisheries	Vaerdal	

¹ Vessels that have been lost or that are permanently ineligible to reenter the fishery are noted in italics.

Potential Effects of the Alternatives

1. Effects on Cooperative Negotiating Leverage within the Amendment 80 sector

This analysis notes that under any of the alternatives under consideration, other than Alternative 6, holders of a limited amount of QS, or owners of smaller vessels relative to other vessels in the Amendment 80 fleet, are likely to have weakened negotiating leverage when seeking favorable terms to join a cooperative as the GRS increases, if they cannot be competitive in the limited access fishery and fishing operations in the GOA are not viable. Smaller vessels tend to have less sophisticated processing operations and may not be able to retain as many different species, or retain products as effectively or economically as larger vessels with more expansive processing operations, and greater hold capacity. Larger vessels may face less of an economic imperative to retain only high value species and products and discard lower value species. Participants using vessels of any size will be disadvantaged in any cooperative negotiation if the other members of a prospective cooperative are able to derive some benefit from forcing a participant into the limited access fishery. Excluding a member from cooperative membership could provide an advantage to a cooperative, and its members, if cooperative members can participate in both the limited access fishery and a cooperative, and harvest more fish in the limited access fishery than would be derived from their QS if it were assigned to a cooperative. Indeed, catching more than they contribute isn't even necessary, because just by entering the open access fishery, they can force the other open access participant to "race-for-fish", expending more effort, increasing cost, reducing retention and recovery. Under this strategy, they become "spoilers", whether they actually harvest more fish or just threaten to.

General benefits to relaxing cooperative formation standards, or requiring a cooperative to accept all members, include: (1) providing additional opportunities to QS holders to form cooperatives, as more combinations of unique QS holder and QS permits are possible; (2) reducing the potential risk of any one company being unable to negotiate terms and being forced to fish in the limited access fishery; and (3) reducing the incentive for members of a cooperative to attempt to create conditions that are unfavorable for certain fishery participants to form a cooperative, if those fishery participants can form a cooperative independent of other QS holders. Generally, easing cooperative formation standards, or requiring a cooperative to accept all members, could reduce the risk that a QS holder may not be able to reach agreement with other members and would be forced into the limited access fishery.

Some industry participants have suggested that there is a risk to any change to the existing cooperative formation standards, because such a change would diminish the negotiating leverage of QS holders who may be necessary to meet the threshold requirements under more stringent cooperative formation standards. These participants assert that this potentially adverse effect may be more likely for participants owning vessels that are more likely to be constrained by the GRS as the retention rate increases. As an example, under the existing cooperative formation standard, a maximum of three cooperatives can form and, until that threshold is reached, any prospective person may have greater negotiating leverage than would exist under alternatives where there are a greater number of potential persons who are available to allow a cooperative to form. Because the cooperative formation standard is relatively high, and a more limited number of QS permits or QS holders are available to meet the third QS holder or ninth QS permit requirements, those participants may be better able to negotiate favorable terms, even if those participants have limited QS holdings or lower retention rates relative to other cooperative members. Under the most extreme example, as indicated in Table E-2 under Alternative 4, suboption 4, several QS holders could form cooperatives independent of other OS holders and the negotiating leverage of QS holders who are unable to form cooperatives independently may be diminished relative to those QS holders able to independently form a cooperative.

However, when compared to the status quo, it is not clear that changing the cooperative standards would necessarily disadvantage participants who are more constrained by the GRS. Table E-2 shows that under the status quo, several multiple vessel companies could form a cooperative and exclude all other smaller QS holders, or single vessel owners. The single cooperative that formed in 2008 through 2010 (see Table E-3) contains several more members than strictly necessary to meet the cooperative formation standards. The extent to which specific alternatives would advantage or disadvantage the negotiating leverage of specific fishery participants is not possible to predict quantitatively. The factors that affect the decision to establish a cooperative include numerous subjective and variable factors. Generally, one would expect that less strict

cooperative formation standards might provide greater opportunities for cooperatives to form, in general, and greater opportunities for any specific participant to find arrangements that allow them to participate in a cooperative. It is not clear that relaxing the cooperative formation standards reduces the negotiating leverage a participant may have as a necessary unique QS holder or QS permit holder under the status quo alternative. Overall, one would expect that relaxing the cooperative formation standard would increase the likelihood that a greater proportion of the TAC assigned to the Amendment 80 sector is harvested under cooperative management.

Requiring that a cooperative accept any otherwise eligible member (Alternative 6) would be expected to reduce incentives for members to attempt to purposefully exclude other members, and could provide an additional opportunity for members who have limited QS holdings to participant in a cooperative, if they can otherwise meet the terms and condition of the cooperative contract. The initial contract establishing a cooperative would be likely to require greater clarity and could include additional enforcement and monitoring provisions to ensure that all potentially eligible members could operate within a cooperative and not adversely affect other cooperative members.

Whether cooperatives actually form under any alternative would likely depend on a wide range of factors. These include pre-existing business relationships; the ability to establish mutually agreeable contracts on data sharing; civil enforcement of cooperative contract provisions; and whether the fishing operations of the companies created unproductive intra-cooperative competition. Other factors include the viability of the limited access fishery, or forgoing fishing in the BSAI for opportunities in the GOA as an outside option for any potential cooperative participant; as well as the potential risk or advantage of the participation of a specific vessel operation in ensuring that the cooperative would be able to meet the GRS in aggregate.

The Council's preferred alternative of two unique persons and seven QS permits would provide an opportunity for the participants in the limited access fishery to form a cooperative without requiring changes in the membership of the existing cooperative. The Council chose an alternative that would provide some additional flexibility to the Amendment 80 sector to form cooperatives, without requiring drastic changes from the status quo. The Council noted its preferred alternative would require more than one company to coordinate operations to receive an exclusive annual harvest allocation. The Council noted that maintaining a multi-company cooperative structure would extend the Council's overall goals of enhancing coordination among a variety of different industry participants.

Section 2.3.8 of the analysis notes that the alternatives considered, including the Council's preferred alternative, are consistent with the overall goals of the Amendment 80 Program. The Council noted that modifying the cooperative standards originally selected under Amendment 80 to reflect the changing negotiating positions of various industry participants was responsive to the best available information on current fishery conditions. Public input during the Council's consideration of the proposed action

generally supported the reduced cooperative formation standard as a mechanism to provide additional opportunities for the current Amendment limited access fishery participants to establish a cooperative.

2. Effects of the Alternatives on Fishing Patterns in the Amendment 80 sector.

This analysis assumes that vessels fishing under a cooperative will realize benefits of LAPP management including a strong incentive to reduce the race for fish, which is the objective of the Council's action. Based on a preliminary review of the 2008 and 2009 seasons, and past experience with similar cooperative based management (e.g., AFA cooperatives, Central GOA Rockfish Program, and BSAI Crab Rationalization Cooperatives) participation in a cooperative is likely to allow optimization of harvest rates for product recovery and quality, reduce incentives to operate in adverse conditions, and streamline operations to enhance profits. It is possible that participants in the limited access fishery could choose to coordinate their fishing operations and voluntarily form a private contractually-based arrangement to assign a portion of the TAC. However, that voluntary arrangement did not occur during 2008 and 2009 among limited access fishery participants to any great extent, and does not appear to have been established for 2010. There is little to suggest such an arrangement would occur in the future.

Alternatives 2 through 5 would be expected to increase the potential that a greater proportion of the catch is harvested under cooperative management. assumes that alternatives other than the status quo, with more restrictive cooperative formation standards, would have a lower potential to encourage cooperative management (i.e., Alternative 2, suboption 1) versus those alternatives with less restrictive criteria (i.e., Alternative 4, suboption 4). This analysis does not attempt to predict which specific alternative would maximize the potential for cooperative fishing, given the lack of any quantitative data. The preferred alternative (Alternative 4, suboption 1) would provide additional opportunities for cooperative formation among the participants in the limited access fishery. This could encourage that portion of the fleet now participating in the limited access fishery to begin fishing under a cooperative structure. Alternative 6 does not modify the cooperative formation standards, but could require parties to more carefully craft the specific terms and conditions of the cooperative contract, because any otherwise eligible party could become a potential participant. Experience with other LAPPs where cooperatives must accept all potentially eligible members suggests that cooperative contracts can be constructed with the necessary specificity for all potential participants.

Because vessels operating in a cooperative receive exclusive, and binding, allowances of PSC, this analysis assumes vessels fishing under a cooperative would have a greater incentive than vessels fishing in the limited access fishery to engage in fishing patterns that may reduce PSC use, such as attempting to use halibut excluder devices. In addition, because Alternatives 2 through 5 would be expected to increase the potential for cooperative formation, fewer vessels, and possibly no vessels, would be expected to participate in the limited access fishery. The QS assignment suboption would reduce the incentive for a co-op member who owns multiple vessels to exclude an otherwise

qualified QS holder from a cooperative and then use one or more of the co-op member's vessels to fish off of the TAC assigned to the limited access fishery, strategically disadvantaging the QS holders excluded from a cooperative. It is possible that, if cooperative formation standards are relaxed so that cooperatives held by one company are allowed to form, the incentive to reduce PSC may be somewhat diminished, to the extent that a multi-company cooperative is likely to have stringent contractual requirements on its members to minimize their PSC. However, any cooperative, regardless of the number of its members, is constrained by its allowance of PSC. The potential that a single company cooperative would be less attentive to PSC would be likely to be limited to any marginal difference between the potential constraints imposed by a multi-party contract and the allowance that a cooperative receives.

Generally, fewer vessels participating in the limited access fishery would be expected to reduce the risk that NMFS managers would fail to close the limited access fishery in time, potentially exceeding the TAC. Again, there are no quantitative data available to assess the potential distinctions that may exist among alternatives.

3. Potential Effects on Net Benefits to the Nation

Overall, this action is likely to have a limited effect on net benefits realized by the Nation, ceteris paribus. Generally, Alternatives 2 through 6, including the Council's preferred alternative, would be expected to encourage cooperative formation or membership and, therefore, may encourage fishing practices that are more likely to result in fully harvesting the TAC assigned to the Amendment 80 sector. To the extent that increased participation in cooperatives allows harvesters additional time to focus on improving product forms, there may be some slight consumer benefits realized by the proposed action, if the proposed alternatives reduce the risk that a specific harvester, or group of harvesters, would otherwise be unable to participate in a cooperative. Any potential consumer benefit assumes that the resulting product enters a domestic market, or in some other way reduces the costs of seafood or improves the quality for U.S. consumers. Conceivably, the proposed alternatives may increase the economic efficiency of that harvester. An additional potential benefit may result if vessels now active in the limited access fishery formed a cooperative and were able to trade CQ with other cooperatives to maximize their harvest. Currently, the Amendment 80 Program does not allow unharvested TAC assigned to the limited access fishery to be reallocated to a cooperative. If multiple cooperatives form, rather than a cooperative and a limited access fishery, CO could be shared among cooperatives, as necessary, to maximize their harvest.

Generally, cooperative management reduces management costs to NMFS, because cooperatives undertake actions to ensure their allocation/allowance is not exceeded, whereas under a limited access fishery, NMFS assumes that management burden and its associated costs. Alternatives 2 through 6 are likely to reduce management costs overall relative to the status quo option to the extent that they result in less participation in the limited access fishery. Again, the lack of any quantitative data makes it difficult to assess the relative differences in net benefits among the alternatives.

4. Potential Effects on Management, Enforcement, and Safety.

As noted under the effects on net benefits, Alternatives 2 through 6, including the Council's preferred alternative, may reduce some management costs. Enforcement of Alternatives 2 through 6 would not be expected to differ from the status quo, because NMFS would continue to require the same catch accounting and reporting protocols, regardless of how the cooperative formation standards are changed. The GRS suboption may require some changes in enforcement, if this alternative were selected in conjunction with one of the other alternatives. Specifically, under this suboption, (part of the Council's preferred alternative), NMFS would need to monitor the overall retention rates of all cooperatives and determine whether this aggregate retention rate should be applied to all cooperatives. This is not likely to be a substantially greater burden than current GRS monitoring and enforcement currently, assuming that this alternative is applied as described in Section 2 of this analysis. Section 2 notes that general enforcement of the GRS may be problematic.

Safety is not likely to be effected substantially under any of the alternatives under consideration. Specifically, under each of the alternatives, all vessels are required to comply with minimum safety standards under USCG regulations. Although vessels fishing in cooperatives are likely to have reduced incentives to engage in a potentially dangerous race for fish, and easing cooperative formation standards may encourage greater participation in cooperative management, NMFS does not have quantifiable data to conclude that Alternatives 2 through 6 would result in fishing practices that are substantially different than exist under the limited access fishery, or the status quo option for cooperative formation.

5. Potential Effects on Fishing Crew and Communities.

None of the alternatives would be expected to result in changes in effects to fishing communities or crew. There has been some indication that the Amendment 80 sector is consolidating, or otherwise decreasing the number of active vessels, or crew in 2010. The alternatives could accelerate this consolidation. Vessel consolidation thus far has occurred among members of the existing cooperative. Modifying cooperative formation standards may provide additional opportunities for vessel owners in the limited access fishery to form a cooperative. This could lead to greater vessel consolidation. Vessel operations, including the number of crew, crew payments, vessel offloading patterns, time in port, supply and fuel purchases or other factors that may affect communities are not known for the period prior to and after implementation of the Amendment 80 Program. In addition, there is no information available to suggest that modifying cooperative formation standard would affect crew or communities in ways that differ from the status quo. NMFS has no information to suggest that payment to crew differ between cooperative or limited access fishery vessels or that changing cooperative formation standards would result in any such changes.

1 INTRODUCTION

The groundfish fisheries in the Exclusive Economic Zone (EEZ) off Alaska are managed by the National Marine Fisheries Service (NMFS) under the authority of the Magnuson-Stevens Fishery Conservation and Management Act (MSA). Under the authority of the MSA, the North Pacific Fishery Management Council (Council) developed Fishery Management Plans for the groundfish fisheries of the Gulf of Alaska management area (GOA) and Bering Sea and Aleutian Islands management area (BSAI). The proposed action represents Amendment 93 to the Fishery Management Plan for Groundfish of the Bering Sea/Aleutian Island Management Area (BSAI FMP), as well as changes to federal regulations.

This Regulatory Impact Review (RIR) evaluates the costs and benefits of proposed amendments that would make changes to the Amendment 80 Program for non-AFA trawl catcher/processors that are operating in the BSAI. The proposed amendments would modify criteria that allow owners of non-AFA trawl catcher/processors, commonly known as Amendment 80 vessels, meeting specific requirements to form a fishery cooperative. Once formed, this fishery cooperative is eligible to receive an exclusive harvest privilege of specific BSAI groundfish, and exclusive access to a specific maximum mortality allowance of BSAI prohibited species catch (PSC). Once cooperatives receive these exclusive allocations or allowances they have greater incentives to fish in ways that improve their profitability, reduce bycatch, and enhance safety. The intent of the proposed action is to facilitate greater participation in cooperative management by Amendment 80 vessel owners. One of the alternatives under consideration (Alternative 1 with GRS suboption) could modify the way in which the groundfish retention standard (GRS) applicable to Amendment 80 vessels is applied to cooperatives.

Presidential Executive Order 12866, the National Environmental Policy Act (NEPA), and the Regulatory Flexibility Act (RFA), mandate that certain issues be examined before a final decision is made. The RIR and environmental assessment required under NEPA are contained in Chapters 2.0 and 3.0, respectively. Chapter 4.0 provides an Initial Regulatory Flexibility Analysis, as required under the RFA. Chapter 5.0 includes a description of how the proposed action is consistent with the Magnuson-Stevens Act. References and lists of preparers and persons consulted are provided in Chapters 6.0, 7.0, and 8.0, respectively.

2 REGULATORY IMPACT REVIEW

An RIR is required under Presidential Executive Order (E.O.) 12866 (58 FR 51735; October 4, 1993). The requirements for all regulatory actions specified in E.O. 12866 are summarized in the following statement from the order:

"In deciding whether and how to regulate, agencies should assess all costs and benefits of available regulatory alternatives, including the alternative of not regulating. Costs and benefits shall be understood to include both quantifiable measures (to the fullest extent that these can be usefully estimated) and qualitative measures of costs and benefits that are difficult to quantify, but nonetheless essential to consider. Further, in choosing among alternative regulatory approaches agencies should select those approaches that maximize net benefits (including potential economic, environmental, public health and safety, and other advantages; distributive impacts; and equity), unless a statute requires another regulatory approach."

E.O. 12866 requires that the Office of Management and Budget review proposed regulatory programs that are considered to be "significant." A "significant regulatory action" is one that is likely to:

- Have an annual effect on the economy of \$100 million or more or adversely affect in a material way the economy, a sector of the economy, productivity, competition, jobs, local or tribal governments or communities;
- Create a serious inconsistency or otherwise interfere with an action taken or planned by another agency;
- Materially alter the budgetary impact of entitlements, grants, user fees, or loan programs or the rights and obligations of recipients thereof; or
- Raise novel legal or policy issues arising out of legal mandates, the President's priorities, or the principles set forth in this Executive Order.

2.1 Purpose and Need

The proposed action would modify the requirements that Amendment 80 QS holders would need to meet in order to form a harvesting cooperative and receive an exclusive allocation of Amendment 80 species and access allowance of associated PSC that are incidentally taken during the prosecution of BSAI groundfish fisheries. This action would not modify the specific species that are allocated, the amount of the TAC allocated to the Amendment 80 Program, or the specific percentage of catch that must be retained under the GRS. Since the implementation of the Amendment 80 Program in 2008, some Amendment 80 sector participants have expressed concern that the current requirements to form a cooperative could impede the ability to form a cooperative and receive an exclusive allocation of Amendment 80 species. This could disadvantage participants, and

require them to continue to "race for fish," instead of receiving the benefits of cooperative relationships.

In February 2008, the Council requested a discussion and review of the criteria for establishing cooperatives under Amendment 80. NMFS and Council staff prepared a discussion paper that was presented to the Advisory Panel and Council in June 2008 to provide a qualitative review of the goals of the existing cooperative formation standards, current conditions in the fishery, and the implications of modifying cooperative formation criteria. The discussion paper reviewed criteria for the number of unique entities, the number of QS permits, and amount of assigned QS required for cooperative formation. The paper also examined the consequences of modifying one or more of the criteria, including interactive effects of those changes. The discussion paper noted that most participants in the Amendment 80 sector have successfully established a cooperative in the first year of the program.

Based on the information provided in the discussion paper and public testimony in June 2008, the Council adopted a draft purpose and need statement and recommended alternatives that would modify the existing cooperative formation standards for the Amendment 80 sector. In February 2009, the Council conducted an initial review of an action to modify Amendment 80 cooperative formation and released the amendment package for public review, which included the first five proposed alternatives and the GRS suboption described below. The Council modified some of the alternatives during the initial review. The Council asked staff to include the following information in the analysis before releasing for public review: expand the discussion of the purpose and need statement from Amendment 79 and Amendment 80; include 2008 catch data from the Amendment 80 cooperative separate from Amendment 80 limit access fishery; expand the discussion of GRS implementation and performance including GRS retention by vessel size; and expand discussion of cooperative requirements under other LAPPs. NMFS staff modified the analysis and the Council scheduled final action on Amendment 93 for April 2009. The Council did not take final action on Amendment 93 in April 2009, due to time constraints.

In October 2009, NMFS requested that the Council recommend an additional alternative to the Amendment 93 analysis, after reviewing the Council's purpose and need statement and the suite of alternatives being considered. NMFS proposed that the Council include an alternative (Alternative 6) that requires a cooperative to accept any person otherwise

¹ The term "race for fish" refers to incentives that fishery participants have to harvest the TAC as quickly as possible. The National Research Council (NRC) Report *Sharing the Fish* (NRC 1999) notes that this behavior "typically leads to excessive fleet capacity and fishing effort (capital stuffing) and increasingly shorter seasons." LAPPs that provide exclusive harvest privileges have been used by the Council and NMFS to encourage an end to the race for fish, thereby reducing potential adverse effects that may result from exceeding the TAC, encouraging fishing in a manner that reduces bycatch, improving vessel profitability through more deliberative and efficient fishing practices, and enhancing safety. An extensive discussion of the benefits of cooperative-based management for the Amendment 80 sector is contained in the final EA/RIR/FRFA prepared for the Amendment 80 Program (NPFMC 2007) and is incorporated by reference.

eligible to participate in a cooperative subject to the same terms and conditions that apply to all other members of the cooperative. The Council concurred with NMFS' recommendation and included an additional alternative into the Amendment 93 analysis in October 2009. The Council also recommended that the Amendment 93 analysis be revised and be made available for a subsequent initial review prior to final action to allow additional review of the potential impact of this new alternative.

In June 2008, the Council adopted a draft purpose and need statement and recommended alternatives that would modify the existing cooperative formation standards for the Amendment 80 sector. With the adoption of the additional alternative in October 2009, minor modifications to the draft purpose and need statement were required to reflect this new alternative. The Council adopted a revised purpose and need statement in December 2009.

Purpose and Need

Most participants in the Amendment 80 sector have successfully established a cooperative in the first year of the program. However, some participants have expressed concern that over the long term, cooperative formation standards may disadvantage them, and they may be constrained from establishing cooperative relationships, receiving an exclusive annual harvest allocation, and ending the "race for fish." Smaller vessel owners with limited QS are likely to have weakened negotiating leverage as the groundfish retention standard (GRS) increases if they cannot be competitive in the limited access fishery and options in the Gulf of Alaska (GOA) are not viable. Participants of any size will find it difficult to receive the benefits of cooperative management if they cannot reach agreement on negotiated terms and the limited access fishery is an unattractive outside option, or a cooperative is able to derive some benefit from forcing an entity into the limited access fishery.

Relaxing cooperative formation standards either by reducing the number of quota share (QS) permits that must be assigned, or the number of owners required, or by requiring that any otherwise eligible member be accepted by a cooperative subject to the same terms and conditions as other members could: (1) provide additional opportunities to QS holders to form cooperatives, because more relationships are possible; (2) diminish the negotiating leverage of vessel owners who may be necessary to meet the threshold requirements under more stringent cooperative formation standards; (3) reduce the potential risk of any one company being unable to negotiate settlement and be able to fish only in the limited access fishery; and (4) reduce the incentive for members of a cooperative to attempt to create conditions that are unfavorable for certain fishery participants to form a cooperative.

2.2 Proposed Alternatives

The alternatives recommended by the Council and addressed in this analysis, including the Council's preferred alternative, are:

• <u>Alternative 1</u>: Status quo. A minimum of three unique QS holders holding at least nine QS permits are required to form a cooperative.

- <u>Alternative 2</u>: Reduce the number of unique QS holders required to form a cooperative from three to two or one unique QS holder.
- <u>Alternative 3</u>: Reduce the number of QS permits required to form a cooperative from the existing 9 permits to some lower range (e.g., three permits to the existing 9 permits).
- Alternative 4: Reduce both the number of unique QS holders and the number of QS permits required to form a cooperative (combination of Alternatives 2 and 3 above). Preferred Alternative: Two unique QS holders and seven QS permits.
- <u>Alternative 5</u>: Allow a cooperative to form with a minimum of three unique QS holders holding at least nine QS permits (status quo), or a single or collective group of entities that represent 20 percent, 25 percent or 30 percent of the sector OS.
- <u>Alternative 6</u>: Require that a cooperative accept all members of a cooperative who are otherwise eligible to join a cooperative subject to the same terms and conditions as all other members.
- <u>GRS Suboption</u> (Applicable to all Alternatives): The GRS shall be applied in aggregate, to all cooperatives if this calculation meets or exceeds the GRS requirement.
- <u>QS Assignment Suboption</u> (Applicable to all Alternatives): A QS holder must assign all QS permits either to a cooperative or the limited access fishery. This provision, if implemented, would not apply until the second fishing year after a final rule becomes effective.

Under Alternative 3, the analysis has suboptions for 3, 6, 7, and 8 QS permits based on Council guidance.

Under Alternative 4, the suboptions include a range of combinations from the relatively more restrictive cooperative formation standard (i.e., two QS holders and 6 QS permits), and the less restrictive (i.e., 1 QS holder and 3 QS permits).

Under Alternative 5, the phrasing of the alternative suggests that it is possible to form a cooperative either by meeting the existing requirements (i.e., three unique QS holders and nine QS permits) or by a single person/entity, or group of people/entities, meeting a minimum level of QS. If such a cooperative is formed by meeting these minimum QS holding requirement, other participants could still choose to form a cooperative under the existing cooperative formation standards. Under the suboption where 30 percent of the QS must be assigned to a cooperative in order for it to form, no more than one person could qualify to form a cooperative as a single company under that option. The existing limitations that no person may hold more than 30 percent of the Amendment 80 QS pool, unless that person held the catch history of qualifying vessels prior to final action by the Council in June 2006 (50 CFR 679.92(a)), and the prohibition on the severability of QS from the permit to which it is assigned (50 CFR 679.90(a)), effectively limits all but one company from being able to hold 30 percent or more of the QS pool. However, it would

still be possible for more than one company to combine their QS holdings in order to meet the minimum QS holding standards of 30%, 25%, or 20% of the Amendment 80 QS pool.

Under Alternative 6, an otherwise eligible person could join any cooperative that has formed under the existing cooperative formation standards (i.e., three unique QS holders and nine QS permits), subject to the same terms and conditions that are applicable to all other cooperative members. This alternative would not directly modify the cooperative formation standards, but would allow persons to establish cooperative relationships if the limited access fishery option was not acceptable to that person and they were willing to meet the terms and conditions applicable to all other members of the cooperative.

The GRS suboption would apply under all of the alternatives. It would not specifically modify the criteria to form a cooperative, but would modify the way in which the GRS is applied to cooperatives, once they have formed. Presumably, allowing the GRS to be aggregated across cooperatives could reduce some of the potentially adverse consequences for vessel operators that may be disadvantaged, if the cooperative standards are modified. During initial review in February 2009, the Council recommended incorporating the aggregate GRS as a redesignated suboption. The Council noted that as a stand-alone alternative, this provision did not appear to conform to the purpose and need statement adopted by the Council, which is specifically addressing cooperative formation standards, not the method used to compute the GRS.

The QS assignment option would prohibit QS holders from assigning their QS permits to one or more cooperatives <u>and</u> the limited access fishery, during the same calendar year. This option would not modify cooperative formation standards, but would reduce the incentive of QS holders to exclude QS holders from joining a cooperative and using one or more of their vessels to fish in the limited access fishery. Because QS permits and LLP licensees are required to be assigned to specific vessels, this suboption would effectively require that a QS holder also assign all Amendment 80 vessels and licenses to one or more cooperative <u>or</u> to the limited access fishery. As selected by the Council in its preferred alternative, this option, if implemented, would not be effective until the second fishing year after the final rule is effective. The analysis does contain a general discussion of the effects and management and enforcement of this suboption in Section 2 of this analysis.

The maximum number of cooperatives that could form under the alternatives, assuming that all 28 QS permits were issued by NMFS, is described in Table 2-1. Table 2-1 assumes that the specific ranges of options described under Alternatives 1 through 5 are suboptions that the Council could choose to select. In cases where the alternative does not specify that a cooperative formation standard has been modified (e.g., Alternative 2 modifies the number of unique owners required, but not the number of QS permits), the status quota requirement for the other criteria is applied. The Council's preferred alternative for the cooperative formation standard is noted in bold in Table 2-1.

 Table 2-1
 Alternatives and Suboptions for Cooperative Formation

Alternative	Suboption	Minimum	Minimum	Maximum
		number of	number of	number of
		unique QS	QS	cooperatives
		holders	permits	that could
		required	required	form
Alternative 1: Status	N/A	3	9	3
quo				
Alternative 2: Fewer	Suboption 1: 2 unique QS holders	2	9	3
unique QS holders	Suboption 2: 1 unique owner	1	9	3
Alternative 3: Fewer QS	Suboption 1: 8 QS permits	3	8	3
permits	Suboption 2: 7 QS permits	3	7	4
	Suboption 3: 6 QS permits	3	6	4
	Suboption 4: 3 QS permits	3	3	9
Alternative 4: Fewer	Suboption 1: 2 QS holders and	3	7	4
unique QS holders and	7 QS permits			
Fewer QS permits	Suboption 2: 2 QS holders and 6	2	6	4
	QS permits			
	Suboption 3: 2 QS owners and 3	2	3	9
	QS permits			
	Suboption 4: 1 QS holder and 6	1	6	4
	QS permits			
	Suboption 5: 1 QS holder and 3	1	3	9
	QS permits			
Alternative 5: Status	Suboption 1: Status quo or 30 %	3 or 1	N/A	3 or 3
quo <u>or</u> Minimum QS	of QS pool			
holding to form	Suboption 2: Status quo or 25 %	3 or 1	N/A	3 or 4
cooperative	of QS pool			
	Suboption 3: Status quo or 20 %	3 or 1	N/A	3 or 5
	of QS pool			
Alternative 6: Accept	N/A	3	9	3
all members				

2.3 Background

2.3.1 Development of Amendment 80

After several years of development, the Council took final action to recommend Amendment 80 on June 9, 2006. The Council submitted Amendment 80 for review by the Secretary of Commerce (Secretary) in April 2007. NMFS approved Amendment 80 in July 2007, and published a final rule to implement Amendment 80 on September 14, 2007 (72 FR 14147). Fishing under Amendment 80 regulations began in 2008.

The Amendment 80 Program allocates several BSAI non-pollock trawl groundfish species among trawl fishery sectors and facilitates the formation of harvesting cooperatives in the non-AFA trawl catcher/processor sector. The Program meets the broad goals of (1) improving retention and utilization of fishery resources by the non-AFA trawl catcher/processor fleet by extending the GRS to all non-AFA trawl catcher/processor vessels; (2) allocating fishery resources among BSAI trawl harvesters in consideration of historical and present harvest patterns and future harvest needs; (3)

establishing a LAPP for the non-AFA trawl catcher/processors and authorizing the allocation of groundfish species to harvesting cooperatives to encourage fishing practices with lower discard rates and to improve the opportunity for increasing the value of harvested species, while lowering costs; and (4) limiting the ability of non-AFA trawl catcher/processors to expand their harvesting capacity into other fisheries not managed under a LAPP. The purpose and need statement adopted by the Council for Amendment 80 follows:

The Council's primary concern is to maintain a healthy marine ecosystem to ensure the long-term conservation and abundance of the groundfish and crab resources. To this end, the Council is committed to reducing bycatch, minimizing waste, and improving utilization of fish resources to the extent practicable in order to provide the maximum benefit to present generations of fishermen, associated fishing industry sectors, including the CDQ sector, communities, and the nation as a whole, while at the same time continuing to look for ways to further rationalize the fisheries. Focusing on reduction of bycatch and the attendant benefits of cooperatives and CDQ allocations in meeting bycatch reduction objectives are initial steps towards rationalization of the BSAI groundfish fisheries. Bycatch reduction measures for the Non-AFA trawl Catcher Processor sector is a priority focus in this step toward rationalization given this sector's historical difficulty in achieving acceptable bycatch levels. Allocations to this sector associated with cooperative management of catch and bycatch provide the opportunity for participants in this sector to mitigate the cost, to some degree, associated with bycatch reduction. In addition to reducing bycatch in one sector, assurance should be provided to minimize negative impacts on others.

Prior to the adoption of Amendment 80, the GRS was approved by the Council under Amendment 79 in June 2003, published as a final rule on April 6, 2007 (71 FR 17362), and became effective in 2008. The GRS requires a minimum retention of all federal groundfish in the BSAI for non-AFA trawl catcher/processors. Groundfish are defined in regulations at 50 CFR 679.2. The GRS requirement begins at 65 percent of all groundfish caught in 2008, rising to 75 percent in 2009, 80 percent in 2010, and peaking at 85 percent in 2011 and all future years. As recommended by the Council, the GRS originally applied only to vessels greater than or equal to 125 feet in length overall (LOA). The Council recommended not applying the GRS to vessels less than 125 feet LOA, based on a review of the potential costs of enforcement relative to revenue for these vessels, as well as the proportionally smaller amount of total catch that vessels less than 125 feet caught relative to larger vessels. A more extensive discussion of the rationale for the Council's application of a length standard to the GRS is found in the response to comment section of the final rule for Amendment 79, which was published in the *Federal Register* (April 6, 2006; 71 FR 17362).

The Amendment 80 LAPP is intended to improve retention and utilization of fishery resources by allocating six species (Aleutian Islands Pacific ocean perch, BSAI Atka mackerel, BSAI flathead sole, BSAI Pacific cod, BSAI rock sole, and BSAI yellowfin sole quota share (QS), which is a long-term harvest privilege, to persons: who met criteria

established by Congress under the Capacity Reduction Program (CRP), in December 2004;² and based on landings of Amendment 80 species from 1998 through 2004.

The CRP defined the vessels that may initially qualify to participate as non-AFA trawl catcher/processors for specifically defined non-pollock groundfish species in the BSAI. All of the Amendment 80 species are defined as non-pollock groundfish species in the CRP. Specifically, the CRP allows only those non-AFA trawl catcher/processors that made a minimum of 150 metric tons of harvest of non-pollock groundfish³ in the BSAI from 1997 through 2002, to initially qualify for participation in the Amendment 80 fishery.⁴ Based on NMFS records, only 28 vessels met these criteria, and these vessels are listed in regulation and in Table 2-1.⁵

Amendment 80 defined the specific amount of QS derived from each of the 28 originally qualified vessels based on total catch from those vessels during 1998 through 2004. NMFS may issue a single QS permit for the catch history for each of the 28 vessels listing the amount of each of the six Amendment 80 species derived from the vessel's catch history. Once NMFS issues that QS permit, it may not be subdivided and QS allocations of specific species may not be transferred separately. Furthermore, that QS permit is affixed to the vessel that gave rise to the QS. Once affixed to a vessel, a QS permit may not be transferred independently from that vessel. Vessel owners choose to apply for QS must do so by October 15 of the year prior to the year they intend to fish in the BSAI. However, prospective QS holders who choose not to apply for QS are not able to fish in the BSAI using trawl gear.

However, if a vessel sinks, is scrapped, or is otherwise permanently ineligible to be used in the program, the vessel owner may transfer the QS permit assigned to that vessel to the LLP license originally derived from that vessel. Once QS is assigned to an LLP license, NMFS reissues that LLP license with the QS affixed to it as an Amendment 80 LLP/QS license (LLP/QS license). With three exceptions, shown in Table 2-1, the QS permits that may be issued in the Amendment 80 fishery are assigned to one of the 28 initially eligible vessels. Throughout this document the terms vessel owner and QS holder are used interchangeably, because the vessel and QS are linked with these limited exceptions.

Each year, the program allocates an amount of Amendment 80 species available for harvest, called the initial total allowable catch (ITAC), and apportions crab and halibut

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² The CRP was enacted through the Consolidated Appropriations Act of 2005 (Public Law 108-447).

³ The CRP identified non-pollock groundfish as Atka mackerel, flathead sole, Greenland turbot, Pacific cod, Pacific ocean perch, rock sole, and yellowfin sole.

⁴ On May 19, 2008, the United States District Court for the Western District of Washington issued an order in the case *Arctic Sole Seafoods v. Gutierrez* that vacated specific regulations that limit the use of specific vessels in the Amendment 80 Program to allow "a qualified [Amendment 80 vessel] owner to replace a lost qualifying vessel with a single substitute vessel." NMFS is in the process of implementing the Court's order.

⁵ See Table 31 to part 679 at: www.alaskafisheries.noaa.gov/regs/default.htm

⁶ See regulations at 50 CFR 679.90(e)

PSC to two defined groups of trawl fishery participants: (1) the Amendment 80 sector; and (2) the BSAI trawl limited access sector. The ITAC is the amount of the TAC remaining after allocations to the Western Alaska Community Development Quota Program (CDQ) and incidental catch needs by the BSAI trawl limited access sectors. The BSAI trawl limited access sector comprises all trawl participants who are not part of the Amendment 80 sector (i.e., AFA trawl catcher/processors, AFA trawl catcher vessels, and non-AFA trawl catcher/vessels). Allocations made to one sector are not subject to harvest by participants in the other fishery sector, except under a specific condition: fish that are allocated to the BSAI trawl limited access sector and projected to be unharvested can be reallocated to Amendment 80 cooperatives by NMFS, throughout the year, to ensure a more complete harvest of the TAC.

The amount of ITAC assigned to the Amendment 80 and the BSAI trawl limited access sectors was based on a review of historical catch patterns during 1998 through 2004, with consideration given to various economic and socioeconomic factors. As an example, a greater proportion of the Atka mackerel and Aleutian Islands Pacific ocean perch (AI POP) was assigned to the BSAI trawl limited access sector than is reflected in historical catch by that sector from 1998 through 2004. One exception to this rule applies to Pacific cod. Pacific cod ITAC is allocated to the Amendment 80 sector under the criteria that the Council adopted for Amendment 85, in April 2006. NMFS published a final rule implementing Amendment 85 in September 2007 (72 FR 50788) and Amendment 85 and Amendment 80 were fully implemented in 2008. The rationale for Pacific cod allocation to the Amendment 80 sector is described under the analysis prepared for Amendment 85 and is not repeated here.⁷

Annually, NMFS determines the division of the Amendment 80 sector's ITAC within the sector, based on QS holdings of sector members. Depending on a QS holder's choice, the portion of the TAC associated with that person's QS is assigned to either a cooperative or a limited access fishery. A vessel owner may choose to assign a vessel to either a cooperative or the limited access fishery, but owners of multiple vessels may choose to assign each vessel independently to a cooperative or to the limited access fishery depending on the perceived benefits of those choices for each specific vessel. In general, if a person who holds one percent of the Amendment 80 QS for a given species assigns that QS to a cooperative, one percent of that species TAC would be assigned to that cooperative for that year. Crab and halibut prohibited species catch (PSC) limits in the BSAI are allotted to the Amendment 80 and BSAI trawl limited access sectors, and within the Amendment 80 sector, in a similar manner. The PSC limits assigned to the Amendment 80 sector are lowered in a stepwise fashion over a period of years to provide additional reductions in PSC use over time.

The Amendment 80 fleet is constrained by harvest limits in the GOA, commonly known as sideboards, that limit the catch of pollock, Pacific cod, northern rockfish, Pacific ocean

⁷ See Final EA/RIR/IRFA for Amendment 85: www.alaskafisheries.noaa.gov/analyses/amd85/bsa85final.pdf

⁸ See Tables 35 and 36 to part 679 at: www.alaskafisheries.noaa.gov/regs/default.htm

perch, and pelagic shelf rockfish, as well as halibut PSC based on harvest patterns during 1998 through 2004. In addition, a number of the Amendment 80 vessels are participants in the Central GOA Rockfish Program LAPP and participate in either a cooperative or limited access fishery under that Program.

In addition, Amendment 80 modified the GRS, as recommended under Amendment 79, in two critical ways. First, the GRS was extended to apply to all non-AFA trawl catcher/processors operating in the BSAI, without an exemption for vessels under 125 feet LOA. Therefore, all Amendment 80 vessels, regardless of size, would be required to comply with the GRS. Second, Amendment 80 modified the method of calculating the total retention of catch that applies to cooperatives. Under the GRS as modified by Amendment 80, each vessel participating in the limited access fishery must ensure that it meets the GRS requirements based on the amount of catch retained by that vessel. Vessels participating in a cooperative can aggregate the total catch by all vessels in the cooperative and the total retained catch by all vessels in the cooperative.

2.3.2 Amendment 80 in the Context of GRS and Amendment 85

Although Amendment 80 was developed during the same period of time that the Council was developing the GRS (Amendment 79), and the allocation of BSAI Pacific cod (Amendment 85), the Council chose to adopt those measures as separate provisions and develop the specific aspects of the Amendment 80 Program, including cooperative formation standards, in a separate and distinct action. As such, the purpose and need for those actions are focused on addressing other problems. For reference, the Amendment 79 and Amendment 85 purpose and need statements follow:

Amendment 79 Purpose and Need

The Council's primary concern is to maintain a healthy marine ecosystem to ensure the long-term conservation and abundance of the groundfish and crab resources. Recognizing the importance of both the mandate of the Magnuson-Stevens Fishery Conservation and Management Act to reduce bycatch (discards) to the extent practicable, the US public's perception that discards in the BSAI are excessive, the economic importance of these groundfish fisheries, and the dependence of the participants on these fisheries, the Council is committed to reducing bycatch, minimizing waste, and improving utilization of fish resources to the extent practicable in order to provide the maximum benefit to present generations of fishermen, associated fishing industry sectors, communities, and the nation as a whole. Finally, the Council acknowledges the fact that any solution to the problem of reducing discards must take into account the ability of NOAA Fisheries to monitor discards and adequately enforce any regulations that are promulgated.

Amendment 85 Purpose and Need

Secretarial Review Draft – RIR/EA/FRFA, October 2011 BSAI Amendment 93, Modifying Amendment 80 cooperative formation criteria

⁹ See Tables 37 and 38 to part 679 at: www.alaskafisheries.noaa.gov/regs/default.htm

The BSAI Pacific cod fishery is fully utilized and has been allocated among gear groups and to sectors within gear groups. The current allocations among trawl, jig, and fixed gear were implemented in 1997 (Amendment 46) and the CDQ allocation was implemented in 1998. These allocations are overdue for review. Harvest patterns have varied significantly among the sectors, resulting in annual inseason reallocations of TAC. As a result, the current allocations do not correspond with actual dependency and use by sectors.

Participants in the BSAI Pacific cod fishery who have made significant investments and have a long-term dependence on the resource need stability in the allocations to the trawl, jig, fixed gear, and CDQ sectors. To reduce uncertainty and provide stability, allocations should be adjusted to better reflect historic use by sector. The basis for determining sector allocations will be catch history, as well as consideration of socio-economic and community factors.

As other fisheries in the BSAI and GOA are incrementally rationalized, historical participants in the BSAI Pacific cod fishery may be put at a disadvantage. Each sector in the BSAI Pacific cod fishery currently has different degrees of license requirements and levels of participation. Allocations to the sector level are a necessary step on the path towards comprehensive rationalization. Prompt action is needed to maintain stability in the BSAI Pacific cod fisheries.

Although the purpose and need statement for Amendment 85 contains a reference that the action is "a necessary step on the path towards comprehensive rationalization," the Council's final action on Amendment 85 was not predicated on future approval of Amendment 80. Similarly, the Council's final motion for Amendment 80 clearly indicated that Amendment 80 could be implemented without Amendment 85, but should Amendment 85 be implemented, Pacific cod would be allocated as an Amendment 80 species with the resulting Pacific cod ITAC and a PSC apportionment. The Council sought to ensure that these two actions could be integrated, but were not required in order for one or the other to proceed.

2.3.3 Modification of Cooperative Formation Standards relative to the Previous Actions and MSA LAPP Provisions

During initial review of this analysis in February 2009, the Council and SSC expressed concerns that modifications to the cooperative formation standards would be inconsistent with the Council's purpose and need statement for Amendment 80 (and possibly Amendments 79 and 85), and whether such potential inconsistencies may affect the ability of the Council to adopt the changes to the Amendment 80 Program proposed under this amendment. Conversations with NOAA General Counsel indicate that the MSA provides the Council with the authority to amend and modify the FMP, including removing or modifying aspects of previously adopted FMP amendments, provided the

¹⁰ See Final Council motion in Section 1.8 of the Amendment 80 Analysis. The preamble to the Amendment 80 proposed rule (72 FR 30052, May 30, 2007) contains an extensive discussion of the relationship of Amendment 85 and Amendment 80 and the ability for NMFS to approve and implement these amendments independently. That discussion is not repeated here.

rationale for any such changes are addressed in a subsequent amendment to the FMP, and those changes are otherwise consistent with the MSA and other applicable law.

Because the Amendment 80 Program provides exclusive harvest privileges to a specific person (i.e., cooperative quota is allocated to a cooperative), NMFS has identified the Amendment 80 Program as a "limited access privilege" consistent with the definition of that term under the MSA. LAPPs are subject to specific statutory requirements in section 303A of the MSA. However, section 303A (i) exempts LAPPs that were adopted by a Council, or implemented by NMFS prior to amendment of the MSA on January 12, 2007 from most of the provisions under section 303A. The Council took final action to adopt Amendment 80 in June 2006.

During review of this analysis in February 2009, Council members raised concerns that modifications to the Amendment 80 cooperative formation criteria could so substantially change the nature of the Amendment 80 program that those modifications effectively would produce a new LAPP that would be subject to section 303A of the MSA. The changes that the Council is considering with this FMP amendment do not fundamentally change the nature of the Amendment 80 Program. The proposed changes only address one aspect of the Amendment 80 Program, and would not alter the species allocated, the process of allocating QS, ITAC, the persons qualified to receive QS, GOA sideboards, bycatch reduction measures such as the extension of the GRS to all Amendment 80 vessels, or the suite of monitoring and enforcement measures that were adopted with Amendment 80. In addition, the changes that the Council is considering would arguably further the central goals of the Amendment 80 Program, encouraging the end to the race for fish (e.g., "by addressing the goal in the Council's purpose and need statement of "continuing to look for ways to further rationalize the fisheries"), and the formation of cooperatives to help offset the potential costs of management under the GRS. As an

¹¹ Section 3(26) of the MSA:

^{&#}x27;Limited access privilege'--

⁽A) means a Federal permit, issued as part of a limited access system under section 303A to harvest a quantity of fish expressed by a unit or units representing a portion of the total allowable catch of the fishery that may be received or held for exclusive use by a person; and

⁽B) includes an individual fishing quota; but

⁽C) does not include community development quotas as described in section 305(i)."

¹² Section 303A of the MSA:

⁽i) TRANSITION RULES.— (1) IN GENERAL.—The requirements of this section shall not apply to any quota program, including any individual fishing quota program, cooperative program or sector allocation for which a Council has taken final action or which has been submitted by a Council to the Secretary , or approved by the Secretary, with 6 months after the enactment of the this Act except that -

⁽A) the requirements of section 303 (d) of this Act [the MSA] in effect on the day before the date of enactment of that Act [Public Law 109-479] shall apply to any such program;

⁽B) the program shall be subject to review under subsection (c)(1)(G) of this section not later than 5 years after the program implementation; and

⁽C) nothing in this subsection precludes a Council from incorporating criteria in this section into any such plans.

example, depending on the specific alternatives chosen by the Council, the net effect of the action could be to provide greater opportunities for parties to form cooperative relationships, or to encourage a greater proportion of the ITAC to be harvested under cooperative management.

The suite of alternative changes proposed under this action are relatively limited in scope to cooperative formation standards, are consistent with the overall goals of the Amendment 80 Program and the purpose and need statement developed for this amendment.

2.3.4 Current composition of the Amendment 80 sector

Under the criteria established under the CRP, and the recommendations developed by the Council, NMFS could issue up to 28 QS permits for the originally qualifying vessels. Table 2-2 lists the vessels that are eligible to generate QS, the owners of those vessels, the length overall of the LLP licenses that were originally issued for those vessels, and whether those owners assigned their vessels and associated QS permits to either a cooperative, limited access fishery, or chose not to apply for QS for 2010. Several important aspects of the Amendment 80 Program that are relevant to this analysis and the proposed alternatives are provided in Table 2-1.

First, Table 2-1 shows that in 2010, nine QS permits have been assigned to the limited access fishery, 18 to a single cooperative, and one potential QS permit has not been allocated QS. In 2009, eight vessels were assigned to the limited access fishery, and 17 to a single cooperative, and three potential QS permits held by two unique persons had not been allocated QS. In 2008, 17 QS permits were assigned to the cooperative, seven were assigned to the limited access fishery, and four QS permits held by three unique QS holders were not assigned QS because those QS holders did not apply. In 2009, one QS holder, Arctic Sole Seafoods, who did not apply for QS in 2008, chose to apply for QS and join the Amendment 80 sector in 2009. This decision appears to have been based largely on the result of litigation in Arctic Sole Seafoods v. Gutierrez that vacated specific regulations that limit the use of specific vessels in the Amendment 80 Program to allow "a qualified [Amendment 80 vessel] owner to replace a lost qualifying vessel with a single substitute vessel." The owner of the F/V Arctic Rose, an originally qualifying Amendment 80 vessel, has replaced that vessel with the F/V Ocean Cape and has designated that vessel for use in the limited access fishery. In 2009, the QS permits based on the catch history of the F/V Bering Enterprise and F/V Harvester Enterprise were applied for, and issued. Only the QS permit that could be derived from the F/V Golden Fleece has not been issued. Additional discussion of possible reasons why that prospective QS holder may have chosen not to participate in the Amendment 80 Program is provided in Section 2.3.5 of the analysis.

Second, to help frame the analysis and potential negotiating positions of the various parties in the context of the GRS, Table 2-2 indicates vessels that may be considered as smaller vessels, in bold. Generally, smaller vessels have less sophisticated processing operations and may not be able to retain as many different products, or retain products as

effectively or economically as larger vessels with more expansive processing operations, and greater hold capacity. There is not a clear distinction between large and small vessels in the Amendment 80 fleet, and several methods could be used to determine which vessels may have a weaker negotiating position due to their ability to reach the GRS standards. During the development of Amendment 79, the Council determined that vessels less than 125 feet LOA may be less capable of meeting the GRS on an individual basis. The Council's decision was based on input from the Council's technical committee during the development of Amendment 79. The Council was advised by the technical committee, as well as other public input, that vessels less than 125 feet LOA typically had smaller hold capacity, the costs of GRS compliance may be higher relative to their net revenue when compared to larger vessels, and vessels less than 125 feet LOA caught a much smaller proportion of the total catch by non-AFA trawl catcher/processors (i.e., Amendment 80 vessels) than vessels 125 feet or greater LOA.

Similarly, the Amendment 80 analysis indicated that vessels of smaller sizes had a lower retention rate than larger vessels. For purposes of this analysis, smaller vessels would refer to vessels that are most likely to have a difficult time achieving GRS requirements if fishing independently. The Amendment 80 analysis examined various size classes of Amendment 80 vessels as a means to assess the relative retention rate of vessels. Table 1-98 in the Amendment 80 analysis noted that vessels with average length overall of less than 144 feet retained an average of 63 percent of their total catch during 1995 through 2003. This is slightly less than the initial GRS of 65 percent. While the retention rates during 1995 through 2003 may not reflect current retention rates, particularly for vessels targeting specific species with higher retention rates, or under cooperative management which reduces the incentive to race for fish, it provides some indication of the relative size of vessels that may have a difficult time meeting higher GRS requirements. This analysis assumes that vessels less than 144 feet LOA are smaller vessels. In addition to all of the vessels that the Council identified as potentially having greater enforcement costs in the Amendment 79 analysis, it includes several additional vessels with poorer retention rates. As the GRS increases, the definition of a smaller vessel would likely change as even larger vessels may become more constrained by the GRS, but such changes in the definition of a large or small vessel are not considered for this analysis.

The vessel length descriptions provided in Table 2-2 are based on NMFS data for the LLP licenses assigned to those vessels. Vessel length data can be inconsistent among various data sources. For example, United States Coast Guard (USCG) documentation designating the length of a vessel may measure length differently than the regulatory definition of LOA used by NMFS, and therefore, may differ from the vessel length reported to NMFS. Also, it is possible that the length on USCG documentation or the FFP may not reflect changes made to a vessel after length data has been reported. To avoid potential inconsistencies in data, and reporting differing lengths, this analysis assumes that the size of the vessel is no greater than the maximum length overall (MLOA) on the LLP license designating the vessel. Because no vessel may exceed the

¹³ See Analysis at: www.alaskafisheries.noaa.gov/sustainablefisheries/amds/80/earirfrfa0907.pdf, Table 1-98

MLOA of the LLP licenses designating a vessel, this assumption ensures that although a vessel may be smaller than the MLOA of the LLP license designated for that vessel, it is not greater than that length.

Third, Table 2-2 describes the current ownership structure within the Amendment 80 sector, as well as the amount of QS that each unique QS holder is assigned. Data concerning the common ownership of vessels was provided primarily by members of the Amendment 80 sector, with additional information provided by a review of NMFS records.

Fourth, Table 2-2 denotes the original qualifying vessels that are no longer active in the Amendment 80 fleet in italics due to an actual or constructive loss (i.e., *Alaska Ranger, Arctic Sole, Prosperity*), or because those vessels have been reflagged under foreign ownership and are no longer eligible to reenter U.S. fisheries under the provisions of 46 U.S.C. 12108 (i.e., *Bering Enterprise*).

Table 2-2 Owners of Amendment 80 vessels, QS permits, LLP licenses and QS holdings derived from Amendment 80 vessels, and participation in 2010 cooperative and limited access fishery

	Participants in 2010 Amen	dment 80 Limited Ac	cess Fishery	
I	Participant Data		Initial QS pool h	eld by owner
Owner ₁	Amendment 80 Vessel(s)/LLPs with QS and length overall (LOA) ₂	Species	Percentage by species	Percentage of aggregate QS pool
Fishing Company of	Alaska Juris (238 ft) Alaska Ranger ₃ (203 ft -QS	Flathead Sole (FSOL)	10.7	35.9
Alaska (FCA),	assigned to LLP license	Pacific cod (PCOD)	16.0	1
Inc.	derived from vessel)	Rock sole (ROCK)	23.5	
(Management	Alaska Spirit (221 ft) Alaska Victory (227 ft)	Yellowfin sole (YFIN)	38.3	
entity for	Alaska Voyager (228 ft)	AI POP (POP)	53.0	1
owner)	Alaska Warrior (215 ft)	Atka mackerel (AMCK)	58.2	
Arctic Sole	Ocean Cape (122 ft - QS	FSOL	0.8	0.3
Seafoods	assigned to LLP derived from	PCOD	0.4	
	originally qualifying vessel	RSOL	0.6	
	Arctic Rose)	YFIN	0.2	
		POP	0	1
		AMCK	0	
Trident	Bering Enterprise ₄ (183 ft)	FSOL	0.5	0.2
Seafoods		RSOL	0.2	
		YFIN	0.5	
United States	Ocean Alaska ₅ (124 ft)	FSOL	1.6	See aggregate
Seafoods, LLC.		PCOD	0.6	total listed
		RSOL	0.6	under
(Management		YFIN	0.7	Amendment 80
entity for		POP	0	cooperative
owners)		AMCK	0	below
P	articipants in 2010 Amendment	t 80 Cooperative (Bes	t Use Cooperati	ive)
United States	Alliance (124 ft)	FSOL	6.5	9.6 (Includes
Seafoods, LLC.	Legacy (132 ft)	PCOD	11.8	Ocean Alaska)
	Prosperity (138 ft - QS	RSOL	8.9	1
(Cont.)	assigned to LLP license	YFIN	7.0	
	derived from vessel)	POP	14.3	
	Seafreeze Alaska (296 ft)	AMCK	9.8	
Iquiqui U.S.,	Arica (186 ft)	FSOL	35.5	16.9
LLC	Cape Horn (158 ft)	PCOD	23.4	1
	Rebecca Irene (140 ft)	RSOL	26.6	
	Tremont (131 ft)	YFIN	20.6	
	Unimak (185 ft)	POP	0	
		AMCK	0.3	
O'Hara	Constellation (150 ft)	FSOL	33.0	12.6
Corporation	Defender (124 ft)	PCOD	19.3	
	Enterprise (132 ft)	RSOL	17.2	
	Harvester Enterprise (188 ft)	YFIN	13.7	7
		POP	0	
		AMCK	0.7	7

	Participants in 2010 Amer			
F	Participant Data	Percentage of Initial QS pool held by owner		
Owner ₁	Amendment 80	Species	Percentage	Percentage of
	Vessel(s)/LLPs with QS		by species	aggregate QS
	and length overall (LOA) ₂			pool
Fishermen's	American No. 1 (160 ft)	FSOL	5.4	8.1
Finest	U.S. Intrepid (185 ft)	PCOD	14.8	
		RSOL	14.6	
(Management		YFIN	8.2	
Entity for		POP	0.4	1
owners)		AMCK	2.2	1
Cascade	Seafisher (230 ft)	FSOL	1.1	8.1
Fishing, Inc.		PCOD	5.2	
		RSOL	1.9	
(Management		YFIN	4.8	
Entity for		POP	18.6	
owners)		AMCK	18.6	
Ocean Peace	Ocean Peace (219 ft)	FSOL	5.3	6.0
		PCOD	5.2	1
		RSOL	4.2	
		YFIN	4.0	
		POP	13.6	
		AMCK	9.2	
Jubilee	Vaerdal (124 ft)	FSOL	1.5	1.9
Fisheries		PCOD	3.5	
		RSOL	3.5	
		YFIN	1.7	
		POP	0	
		AMCK	0.7	
	r who did not apply for Amend	lment 80 QS and	l is not participating	in 2010
Golden Fleece	Golden Fleece (124 ft)	FSOL	0.2	0.1
		PCOD	0.5	
		RSOL	0.3	
		YFIN	0	
		POP	0	
		AMCK	0	

¹ Ownership data are derived from multiple sources including information provided on Amendment 80 QS applications, Restricted Access Management (RAM) LLP database (http://www.alaskafisheries.noaa.gov/ram/llp.htm#list), Groundfish Forum (http://www.groundfishforum.org), and personal communications with Dave Benson (Trident), Bill Orr (Iquiqui U.S., LLC), Susan Robinson (Fishermen's

Finest), Mike Szymanski (FCA), and Dave Wood (U.S. Seafood). Most owners designate subsidiary corporations to

own the vessels. In turn, those subsidiary corporations are wholly owned by the owner.

It is worth noting that one participant, U.S. Seafoods, has assigned vessels to the single cooperative that formed in 2008, 2009, and 2010, as well as one vessel, F/V Ocean

² LOA data derived from RAM LLP license database (see URL above). These data indicate the maximum LOA of the vessel that may use the LLP originally issued for that vessel. Vessel lengths listed in the NMFS database may differ from vessel lengths listed in USCG Vessel Documentation files.

³ Vessels that are no longer active in the Amendment 80 sector due to an actual total loss, constructive total loss or permanent ineligibility to receive a U.S. Fishery Endorsement under 46 USC 12108 are noted in italics.

⁴ The *Bering Enterprise* LLP license is currently held by Trident Seafoods, Inc., but will be assigned to O'Hara Corporation in 2010 (Dave Benson, Pers. Comm.)

⁵ Vessels considered to be smaller vessels for purposes of this analysis are noted in bold text.

Alaska, to the limited access fishery. This choice likely reflects the perceived advantage that vessel may gain when fishing in the limited access fishery relative to the cooperative. Similarly, Arctic Sole Seafoods, has assigned its vessel to the limited access fishery, presumably for the same reason, or because it was unable or unwilling to successfully negotiate entry into the cooperative. The LLP license derived from the Bering Enterprise is currently held by Trident Corporation, and the ITAC derived from that LLP licenses is designated to the limited access fishery because Trident Corporation is not a member of BUC. The LLP license derived from the Bering Enterprise is scheduled to be transferred to the O'Hara Corporation in early 2010. The transfer of the Bering Enterprise LLP license from Trident Seafoods to O'Hara Corporation did not occur in 2009, due to limitations on the number of times an LLP license may transfer during a calendar year. Because the ITAC derived from the Bering Enterprise LLP license is not associated with a specific vessel, other vessels in the limited access fishery will have access to that ITAC.

2.3.5 Cooperative Formation Standards Considered During the Development of the Amendment 80 Program.

Generally, the Amendment 80 Program is intended to facilitate the formation of cooperatives that will receive exclusive harvest privileges for a portion of these fishery resources known as cooperative quota (CQ). Participants who do not choose to join a harvesting cooperative must fish in a limited access fishery, without an exclusive harvest privilege, and must continue to race for fish with other participants in that fishery. The allocation of CQ allows vessel operators to make operational choices to improve returns from the fisheries and reduce discards of fish, because the limited access incentives to maximize catch rates to capture a share of the available catch are removed. The principal benefits from the Program are achieved with harvesters choosing to join cooperatives. In order to form a cooperative, three standards must be met:

- 1. The cooperative must be comprised of at least three unique persons who are not affiliated with one another through direct or indirect ownership of more than 10 percent in one another. This standard is commonly known as the American Fisheries Act 10 percent rule.
- 2. At least nine (of the 28 potentially available) QS permits in the Amendment 80 sector must be assigned to the cooperative ¹⁵; and
- 3. The cooperative applies to receive a CQ permit by November 1 in the year prior to fishing. ¹⁶

These cooperative formation standards are discussed in detail in the Final Environmental Assessment/Regulatory Impact Review/Final Regulatory Flexibility Act (Amendment 80 Analysis) prepared for the Amendment 80 Program, and were addressed during Council

¹⁴ See 50 CFR 679.91(h)(3)(iii) at: www.alaskafisheries.noaa.gov/regs/default.htm

¹⁵ See 50 CFR 679.91(h)(3)(ii) at: www.alaskafisheries.noaa.gov/regs/default.htm

¹⁶ See 50 CFR 679.91(b) and (h)(2)(ii) at: www.alaskafisheries.noaa.gov/regs/default.htm

deliberations during the development of the program.¹⁷ The Council considered and rejected a range of options before ultimately selecting these criteria. The Council reviewed and rejected options that would have required fewer unique persons to form a cooperative. Yet, the minimum standards for cooperative formation selected were deemed to best meet the goals of encouraging cooperation and consolidation, minimizing costs, and providing adequate opportunity for individual participants to establish relationships with similarly situated harvesters.

2.3.5.1 Cooperatives vs. Individual Fishing Quota

The Amendment 80 Analysis notes that cooperative management offers several advantages over individual fishing quotas (IFQs). Specifically, multispecies quotas for both target and bycatch species are difficult to manage when not managed on an aggregate basis. The likelihood that any person would exceed a given allocation may increase under IFQ management. The Amendment 80 Analysis notes that managing and monitoring individual quota accounts is more costly and complex than cooperative allocations. NMFS also notes that another goal of the Program was to reduce incidental catch and PSC, improve the retention of incidental catch, and reduce the potential costs associated with bycatch reduction compliance. Applying the GRS on an aggregate basis to vessels in cooperatives may help meet that goal, by allowing vessels to coordinate the harvest and processing of allocations, whereas under an IFQ system, vessel owners may have little or no incentive to coordinate with other vessel owners, thereby creating conditions that could result in unharvested ITAC, or conditions that could effectively force some IFQ holders to transfer their IFQ on unfavorable terms to other IFQ holders who could meet the GRS standard.

2.3.5.2 The single cooperative alternative

During the development of the Amendment 80 Program, the Council considered alternatives that would have required all QS holders in the fleet to choose to join a cooperative in order to form a cooperative. The common name for this requirement was the single cooperative alternative, because only one cooperative could form. This alternative was removed from further consideration due to concerns that it may not be possible for all parties to agree to the terms for contract formation. The negotiating leverage of the last QS holder necessary to meet this standard could place undue pressure on the remaining members of the cooperative to accede to unreasonable demands of the last member. This dynamic would also create a strong incentive for each QS holder to refuse to agree to negotiate any contract terms in the hope that the QS holder would be able to receive more favorable terms as the last member. This option was rejected, because it failed to create incentives to encourage harvesters to end the race for fish through cooperative management.

¹⁷ See Analysis on NMFS website at: www.alaskafisheries.noaa.gov/sustainablefisheries/amds/80/earirfrfa0907.pdf

2.3.5.3 Cooperatives with multiple QS holders and permits

Because the Council rejected IFQ management and a single cooperative alternative as contrary to the goals of the Amendment 80 Program, the Council considered those requirements that would encourage cooperative formation while addressing the potentially conflicting interests of various participants. The Council was aware that the Amendment 80 sector was comprised of larger vertically integrated companies with multiple vessels, with substantial catch history (and could therefore receive multiple QS permits), as well as single vessel companies. The Council sought to select cooperative formation standards that would encourage these various participants to cooperate to improve their ability to meet the expanded GRS requirements that Amendment 80 would impose.

As noted in the Council's purpose and need statement, the Council specifically recommended cooperative management as a mechanism to help mitigate the relatively higher costs of GRS compliance that may be imposed on smaller vessel operators with the expansion of GRS. However, the Council also recognized that allowing cooperatives to form could lead to "increasing utilization and retention" of fishery resources. ¹⁸ The Council's purpose and need statement did not specify criteria for accomplishing these goals, and a range of options were considered to address the Council's purpose and need statement. Ultimately, the Council considered minimum requirements on the number of QS holders (i.e., vessel owners) and the number of QS permits as the mechanisms that would best encourage cooperative formation among a variety of industry participants.

The deliberations of the Council during the development of the cooperative formation standards reflect the suite of issues that the Council sought to balance. Early in the development of the cooperative formation standards, Council members recognized that less restrictive cooperative formation standards may "provide greater flexibility for persons who may want to work together within a [cooperative] to address both harvesting efficiencies and the groundfish retention standard." Furthermore, Council members were aware of "a tension there between providing flexibility for like minded persons to join a [cooperative] and getting the benefits from that, versus NMFS' ability to parse out allocations into smaller and smaller groups."

During the development of the cooperative formation standards, industry participants expressed concern that applying only a minimum QS holder standard could create an incentive for a small cooperative to form comprised with little incentive to coordinate with other participants. In addition, industry participants expressed concern that establishing a cooperative formation standard that required only a minimum number of QS permits to form could create condition that would allow larger companies holding multiple QS permits to effectively form a cooperative without any participation from single vessel companies. Although the range of public input differed on the cooperative formation standards, at one point during the development of the Amendment 80 Program,

¹⁸ Earl Krygier, Transcript from February 2006 Council meeting, Agenda Item C-1, p. 15.

¹⁹ Sue Salveson, Transcript from June 2005 Council meeting, Agenda Item C-7, p. 21.

²⁰ Sue Salveson, Transcript from June 2005 Council meeting, Agenda Item C-7, p. 22.

representatives from the same interests that ultimately formed BUC advocated that only 15 percent of the QS permits should be required to form a cooperative. This standard would have been less restrictive than the one ultimately chosen by the Council. Although public input guided the Council to consider a cooperative formation standard that would require both a minimum number of unique QS holders and QS permits, the Council assessed cooperative formation standards based on public comments, the analysis, and perspectives provided during deliberations.

The Council clarified that a QS holder would be considered unique from other QS holders only if that QS holder did not share a 10 percent or greater direct or indirect ownership linkage with any other QS holder. The Council has used this standard to define a unique person since the implementation of the AFA in 1999. The intent of this definition is to ensure that entities are truly distinct and not merely uniquely named corporate entities that, in fact, share common shareholders. A similar standard for defining a unique QS holder has been applied as a requirement to meet minimum cooperative formation requirements in the BSAI Crab Rationalization Program, and the Central GOA Rockfish Program.

In addition to the single cooperative formation standard that would have required all QS holders to participate, or all but one unique QS holder, the Council considered a range of options that would have required a minimum of two, or three unique QS holders in order to form a cooperative. A preliminary review of the Council deliberations leading to the recommendation of Amendment 80 indicates that the Council was concerned that requiring only two unique entities to form a cooperative could create conditions that would disadvantage the negotiating position of QS holders with lower retention standards.

As with any analysis of negotiating leverage, the Council was, and is, limited to a largely qualitative consideration of the factors affecting negotiation positions, because of the wide variety of factors affecting negotiations (e.g., previous business relationships, variations in the fisheries targeted by specific QS holders, retention rates relative to the GRS), and the inability to quantify those positions. Section 1.11.7 of the Amendment 80 Analysis noted that GRS compliance could be a key factor in the negotiations among cooperative members, and is cited below.

The dynamics of cooperative formation negotiations could also be affected by the enforcement of GRS requirements at the cooperative level. Since the ability to comply with GRS requirements may vary across vessels, intra-cooperative compliance with GRS requirements will be subject to negotiation. A vessel with above average compliance costs might choose to use the cooperative level management mechanism to reduce its retention costs, negotiating the terms of that trade off in the cooperative agreement. Since the value of GRS compliance is somewhat intangible (in

²¹ Dorothy Lowman, Transcript form October 2005 Council meeting, Agenda Item C-3, p. 60.

comparison to the value of annual allocations) analysis of the effects on negotiations is difficult. As with negotiations of other terms, a person will compare the opportunity in the limited access fishery, against their cooperative opportunity. In general, participants in a cooperative should be better able to comply with GRS standards than participants in the limited access fisheries who face the time pressures of the race for fish. In a single cooperative structure [i.e., standards are set so that only one cooperative may form], it is possible that one segment of the sector could control cooperative formation. If that segment largely consists of persons that find GRS compliance challenging and costly, it is possible that they could attempt to impose terms on persons that are well equipped to comply with GRS. Since the cooperative will control outsiders' access to the more lucrative share-based portion of the fishery, it is possible that cooperative members could gain concessions on GRS compliance terms. Using this approach, the cooperative could negotiate GRS compliance terms that are favorable to those that face relatively costly compliance, if persons outside the cooperative perceive substantial gains from joining the rationalized fishery.

Conversely, although not explicitly noted in the Amendment 80 Analysis, it is possible that QS holders better able to comply with the GRS could seek to exclude members with poor GRS compliance, if those participants would diminish the likelihood of the cooperative meeting the GRS standards. Under that scenario, it could be possible that entities better able to comply with the GRS could seek to exclude members that it deemed "risky." During final action approving Amendment 80, it appears that the Council had these negotiating dynamics in mind when it recommended that a minimum of three unique QS holders be required to form a cooperative. The Council noted that there was a desire not to create an IFO program, because it wanted to encourage cooperation among fishery participants, in part to address GRS compliance concerns. The Council sought to provide some balance between an IFQ and a cooperative structure that would allow only one cooperative to form. The Council considered three unique QS holders as an effective way to provide negotiating leverage to QS holders that would provide opportunities to encourage single vessel and multiple vessel companies to coordinate to negotiate terms of the cooperative that would meet the requirements of all parties.

In addition to the minimum number of unique QS holders, the Council did consider a minimum number of QS permits that would need to be assigned to a cooperative. The Council considered alternatives that would have required 15 percent of the QS permits, 30 percent of the QS permits, 67 percent of the QS permits, 100 percent of the QS permits, and all less one QS permit. Again, the Council considered the effect of these various criteria and concluded that, in general, less restrictive criteria would most likely facilitate greater cooperation, but monitoring and enforcing a greater number of cooperatives could increase costs, relative to fewer cooperatives. Section 1.11.7 of the Amendment 80 Analysis concluded the following:

Single cooperative systems could simplify management oversight by NOAA Fisheries. The single cooperative system, however, could have some pitfalls. Single cooperative systems could result in no cooperative formation, if the threshold cannot be reached, effectively negating any potential benefit that could arise from this program. A single cooperative system also could provide some sector members with negotiating leverage that is disproportionate to the benefits that they bring to the cooperative. This effect could be particularly problematic in a system that is intended to reward certain characteristics (i.e., improved retention, historic participation, efficient operations). While multiple cooperative systems could address some of these distributional concerns, additional management burdens would be more costly.

Although multiple cooperatives may require some slight increase in monitoring and enforcement costs, this section of the Amendment 80 Analysis did not compare the relative costs to NOAA Fisheries (NMFS) of managing multiple cooperatives versus the costs of monitoring and enforcing the Amendment 80 limited access fishery. Recent discussions with NMFS inseason staff indicate that although the costs of managing multiple cooperatives is slightly higher than a single cooperative, those costs may not be as substantial as suggested in the Amendment 80 Analysis. Additional detail on management costs under this proposed action is provided in Section 2.5.4. Based on a preliminary review of the Council record during Amendment 80 deliberations, it appears that the Council considered the potentially greater management costs to NMFS as a key factor in its selection of the 30 percent alternative over the 15 percent alternative.

Overall, an initial review of the Council deliberations, industry testimony, and the Amendment 80 Analysis indicates that the Council selected cooperative formation standards to address concerns raised by some industry participants that holders of relatively small QS amounts (or owners of smaller vessels) could become less desirable as cooperative members as the GRS is increased. The minimum cooperative formation standards selected sought to balance the negotiating leverage of the various fishery participants to ensure that they could continue to be members of cooperatives and receive value for their QS through that membership. When selecting the cooperative formation standard, the Council was conscious of "diversity in the [Amendment 80] fleet between both retention standards and catch histories and species diversification" and Council members expressed a desire "that a company would not be able to form a [cooperative] by themselves and therefore, again, you spread the benefits out and it would allow the sector as a whole a chance to rationalize…." The Council specifically noted that a

²² Personal Communication, Mary Furuness, Steve Whitney, NMFS Inseason Staff, January 2009.

38.

²³ Additional discussion of the potential increased costs of multi-cooperative management was provided by NMFS staff during June 2005 deliberations (p. 22 of June 2005 Council transcript) and by Council staff during October 2005 deliberations (p. 19 of October 2005 Council transcript).

²⁴ Arne Fuglvog, Transcript from June 2006 (Final Action) Council meeting, Agenda Item C-2, p.

standard that allowed multiple cooperatives "is certainly superior" to models that did not provide flexibility in the relationships that could form among the various parties. ²⁵ The Council was aware that, over time, one would expect owners of smaller vessel that may have more difficulty meeting GRS requirements, to be disproportionately disadvantaged by the competition in the limited access fishery, and would require cooperative relationships to remain viable. ²⁶

2.3.6 Cooperative formation standards in other cooperative programs

In February 2008, the Council and SSC requested additional information on cooperative standards used in other LAPPs. Table 2-3 provides an overview of the cooperative formation standards in the five LAPPs currently in place in the North Pacific. Under all of these LAPPs, except the Amendment 80 Program, a single company or person may realize the benefits of an exclusive harvest privilege, either by fishing under an IFQ or because the cooperative formation standards applicable under those LAPPs do not preclude the ability to hold an exclusive harvest privilege through a cooperative arrangement, by a single company or person. An IFQ and a "single member cooperative" are functionally equivalent in the present context (i.e., a distinction without a difference).

²⁵ Arne Fuglvog, Transcript from June 2006 (Final Action) Council meeting, Agenda Item C-2, p. 38.

²⁶ Additional discussion of this topic is provided in the Section 1.11 of the Amendment 80 Analysis and in the transcripts from June 2006 Council meeting.

Table 2-3 Cooperative Formation Standards in North Pacific LAPPs

LAPP	Exclusive Harvest Allocation Type	Cooperative Formation Standard	"Single Company" Permitted to hold exclusive harvest privilege?
AFA	Exclusive allocation to cooperatives in the catcher vessel sector only. Catcher/processor sector does not receive an exclusive harvest privilege though voluntary contractual arrangements exist to divide the TAC allocated to	For the catcher vessel sector, cooperatives, at least 80 percent of the qualifying AFA catcher vessels delivering to an AFA processor must agree to form a cooperative. Regulations further describe which AFA processor an AFA vessel may form a cooperative with based on landings in the previous year or in the last year the vessel was used. A minimum of 90 percent of the Bering Sea pollock assigned to a cooperative must be delivered to the AFA processor where those vessels have delivered catch. (See 50 CFR	Yes, although use caps limit the ability for any AFA entity (i.e., person) from harvesting more than 17.5% of the directed Pollock fishery, nothing in the AFA or NMFS regulations prevents a single company from owning all of the AFA vessels and AFA processor required to form a cooperative.
Halibut and Sablefish IFQ Program	IFQ	679.4(1)). No	Yes, there are no cooperative allocations under the IFQ Program, only individual persons or companies may hold QS and the resulting IFQ.
Central GOA Rockfish Program	Exclusive allocations to catcher vessel and catcher/processor cooperatives	Catcher vessel sector: At least rockfish QS that represents at least 75 percent of all the legal rockfish landings that yielded Pacific ocean perch, pelagic shelf rockfish, and northern rockfish QS delivered to an eligible rockfish processor during a specific four-year time period selected by that processor.	Yes Catcher vessel sector: as with the AFA nothing specifically prohibits a person from holding at least 75 % of the Rockfish QS delivered to a specific processor, or the eligible rockfish processor.
		Catcher/Processor sector: Two LLP licenses with Rockfish QS in the catcher/processor sector. (See 50 CFR 679.81(i)).	Catcher/processor sector: Nothing prohibits one person from owning the LLP licenses required to form a cooperative.
BSAI Crab Rationalization Program	IFQ is allocated to a QS holder or to a cooperative if that QS holder joins a cooperative.	A minimum of four unique QS holders in that crab QS fishery. There are no requirements on the amount of QS that each person in a cooperative must hold. (See 50 CFR 680.21(a)).	Yes, persons may receive individual allocations of IFQ instead of participating in a cooperative.
Amendment 80 Program	Exclusive allocations and catcher/processor cooperatives	A minimum of three unique QS holders and nine QS permits must be assigned to a cooperative.	No

The rationale provided for allowing individuals to hold exclusive harvest privileges have differed in detail among the LAPPS, but fundamentally address the goal of ending the race for fish. Other rationales are more specific to certain LAPPs, such as improving the safety of life at sea (BSAI Crab Rationalization Program), improving the quality of product, timing of landings, and testing rationalization in the context of the GOA (Central GOA Rationalization), or providing opportunities to mitigate the costs of bycatch reduction (Amendment 80 Program). Allowing the allocation of exclusive harvest privileges to individuals or single companies is consistent with past practice in all but one of the LAPPs, the Amendment 80 Program, in the North Pacific.

One would expect that the negotiating positions among potential cooperative members in LAPPs that provide an opportunity for individual allocations (e.g., BSAI Crab Rationalization and Central GOA Rockfish) would differ from the Amendment 80 Program, because the option of being outside of a cooperative would not necessarily result in a competitive race for fish. The ability for parties to realize the benefits of an exclusive allocation or seek alternative partners may reduce some of the potential adverse negotiating positions of various parties. As an example, under the BSAI Crab Rationalization Program only four QS holders are required to form a cooperative in a crab QS fishery, with no minimum limitation on the amount of QS that a person must hold. This provides ample opportunities for myriad relationships and the negotiating leverage of any one party is likely to be more directly proportional to the potential QS a person may allocate to the cooperative.

Similarly, the Council recommended fairly liberal cooperative formation standards for the Central GOA Rockfish Program that would allow a maximum of 7 cooperatives to form among the 15 eligible catcher/processor endorsed LLP license holders in that LAPP. Ten of the 15 participants in the Central GOA Rockfish Program are also eligible under the Amendment 80 Program.

During the initial review of the document, SSC members requested a review of potential options to require that a cooperative must accept any member who is otherwise eligible subject to the same cooperative arrangements applicable to other members. Provisions requiring "open" cooperative membership apply under the Central GOA Rockfish Program for harvesters in the catcher vessel sector. During the development of that LAPP, the Council recognized that, because a catcher vessel may only participate in a cooperative with a specific processor, catcher vessels had no alternative means to form a cooperative. A similar condition does not exist in the Amendment 80 sector, and no such requirement was implemented as part of the program.

During the proposed rule stage, NMFS considered a similar provision for the Amendment 80 Program. Some industry participants expressed concerns that this provision would frustrate the intent of the Amendment 80 cooperative standard. Primarily, industry participants noted that "Cooperative membership is voluntary, and every eligible entity has multiple opportunities to form alliances that balance the members' needs, while

assuring that the responsibilities of the cooperatives are met."²⁷ Other comments on the proposed rule noted that the existing cooperative formation "will inhibit the formation of cooperatives and promote skullduggery within the industry to the point where some participants may be the victim of unfair business practices. Participants may exclude selected participants from joining all cooperatives and force them into the Amendment 80 limited access fishery so that all of the rollover of PSC and Amendment 80 species from the BSAI trawl limited access fishery would go directly to the cooperatives. These rollovers could amount to millions of dollars worth of fish. Such large financial incentives are certainly more than enough motive for the other companies to 'freeze out' selected participants."²⁸ NMFS reviewed these concerns, consulted with the Council and Council staff, and concluded that "this requirement is not required under the [Amendment 80] Program and has removed it from § 679.91(h)(1). This requirement is not necessary, and would adversely affect the ability of Amendment 80 sector participants to form cooperatives as intended by the Program. NMFS notes that the Council did not recommend this requirement during the development of the Program. Amendment 80 sector participants can form cooperative relationships with any other participant in the Amendment 80 sector. As such, there is no need to require a person be accepted by a cooperative."²⁹ Additional detail on this issue is provided in section 2.4.6.

2.3.7 Fishing Practices of the Amendment 80 Sector: 2003 through 2009

2.3.7.1 Limitations on Data

A key rationale presented by some industry participants for seeking to modify the cooperative formation standards is the desire for some industry participants to fish in a LAPP and end the race for fish. Unfortunately, the available data are limited and it is difficult to compare fishery performance prior to and after the implementation of Amendment 80, much less between the cooperative and the limited access fishery.

Vessels have been operating under the Amendment 80 Program for only two years, and past experience with LAPPs suggests that fishing patterns in the first few years of a new management program may not necessarily be indicative of long-term fishing patterns that develop. As an example, a smaller proportion of the QS holders were active in crab harvesting cooperatives in the first year of the BSAI Crab Rationalization Program than currently, and there were a number of participants that chose not to participate in AFA inshore cooperatives in the first year of that LAPP.

The MSA and agreements with the State of Alaska require that any analysis using catch data may not reveal data from an individual without the consent of that person.³⁰ To

²⁷ Comment 37, Amendment 80 Proposed Rule (72 FR 52695)

²⁸ Comment 38, Amendment 80 Proposed Rule (72 FR 52695)

²⁹ Response to Comment 37, 80 Proposed Rule (72 FR 52695).

³⁰ Section 402(b)(3) of the MSA notes, "The Secretary [of Commerce] shall, by regulation prescribe such measures as may be necessary to preserve the confidentiality of information submitted in compliance with any requirement or regulation under this Act [MSA], except that the Secretary may release or make public any such information in any aggregate or summary form which does not directly or indirectly disclose the identity or business of any person who submits such information." Similarly, State

ensure that analyses do not indirectly reveal individual data, Council and NMFS staff have established a "rule of three" policy that prohibits the release of catch data comprised of fewer than three individuals. The definition of an individual is subject to interpretation. Council staff and Council analyses have considered each vessel as a unique individual when reporting vessel catch data.

Under the Amendment 80 Program, NMFS inseason staff interprets "an individual" to mean a unique entity (e.g., company). In cases where NMFS is aware of common ownership of more than one vessel by a company, which is the case with the Amendment 80 sector, NMFS considers the catch from all vessels within that common ownership structure as being derived from a single individual. Generally, NMFS considers a fishery cooperative as a single individual, for purposes of the release of confidential data, even though a fishery cooperative may be comprised of multiple companies that do not share a common ownership.

NMFS received waivers from the Amendment 80 sector to release aggregate limited access fishery and cooperative fishery data from the 2008 fishing year. A similar request was made for waivers to release aggregate limited access fishery and cooperative data for 2009, and the relevant parties in the Amendment 80 sector agreed to release data.

2.3.7.2 Fishery performance in 2008 and 2009 vs. 2003 through 2007

Given the data limitations described above, the analysis provides limited comparisons between performance of the cooperative and limited access fishery in 2008 and 2009 compared to eligible Amendment 80 vessels from 2003 through 2007. This time period for comparison was selected as most representative of current fishing practices. In addition, catch data that were collected from catcher/processors prior to 2003, may be combined with observer data in an aggregated format (commonly known as "blend data"). Because the data sources used before and after 2003 may differ and the reconciliation of those data sources to provide accurate comparisons can be complicated, this analysis uses only data after 2003.

Data presented in these tables include data from the *F/V Alaska Ranger*. That vessel sank in April 2008. In some cases, data from that vessel are extrapolated from weekly production reports, rather than observer data, which were lost with the vessel. These extrapolations may not accurately reflect fishery performance of the vessel prior to sinking.

of Alaska statutes governing the use of fishery data at Section 16.05.815(a) notes that "records required by regulations of the department (ADF&G) concerning the landings of fish, shellfish, or fishery products, and annual statistical reports of fishermen, buyers, and processors required by regulation of the department are confidential and may not be released by the department or by the Alaska Commercial Fisheries Entry Commission except as set out in this subsection." This statute also notes that records and reports may be released to NMFS (and other entities) provided NMFS "agrees to maintain the confidentiality of the records and reports." NMFS has established a Memorandum of Understanding with ADF&G on the use and release of State of Alaska data.

Table 2-4 identifies the TAC of BSAI groundfish species, total catch by all vessels, catch by Amendment 80 vessels, and the percentage of TAC and total catch attributed to Amendment 80 vessels. This table provides total catch in the cooperative and limited access fishery for 2008 and 2009.

Table 2-5 describes the PSC usage by Amendment 80 vessels in the BSAI in metric tons, or numbers of animals (for crab and non-Chinook salmon), and calculates the PSC rate of each PSC species, per metric ton of groundfish catch, by Amendment 80 vessels. This table provides total PSC removal in the cooperative and limited access fishery for 2008 and 2009.

Table 2-6 provides an overview of catch of groundfish and use of PSC in the BSAI by the Amendment 80 sector in 2008, relative to the initial allocation of ITAC to the Amendment 80 sector. This table provides total catch and PSC use in the cooperative and limited access fishery for 2008 and 2009.

Table 2-7 provides an overview of the percentage of the QS pool assigned to the limited access fishery and cooperative in 2008 and 2009, to provide a context for the potential number of participants and amount of QS that could be assigned to a cooperative.

Tables Table 2-10 and Table 2-11 are similar to Table 2-3, and identifies the TAC of select GOA groundfish species and species groups that historically have been targeted by Amendment 80 vessels, total catch by all vessels, catch by Amendment 80 vessels, and the percentage of TAC and total catch attributed to Amendment 80 vessels. Table 7 describes catch in the Western GOA (Area 610), and Table 2-10 describes the Central GOA (Areas 620 and 630). Data from the West Yakutat District (Area 640) is not presented, due to concerns about releasing confidential data. The waivers granted by industry participants for 2008 and 2009 catch data specifically referenced the BSAI cooperative and limited access fisheries, therefore data in the GOA is not described separately for the Amendment 80 cooperative and limited access fisheries, to avoid the release of potentially confidential data.

Table 2-11 is similar to Table 2-4, and describes halibut PSC use by Amendment 80 vessels in the GOA, in metric tons. Crab and salmon PSC are not subject to limits in the GOA, as they are in the BSAI, and therefore are not constraining on groundfish operations and are not analyzed. Because these data include PSC use by Amendment 80 vessels in the Central GOA Rockfish fishery, it is not appropriate to calculate PSC rates per metric ton of groundfish. NMFS must perform additional reviews of the available data before providing PSC data on a fishery specific basis, to avoid the release of confidential data.

Table 2-4 Total Groundfish Catch by All Vessels and All Amendment 80 Vessels from 2003-2009

Year	Species	Non-CDQ TAC (mt)	Total Catch (All vessels)	Amendment 80 (A80) Catch (mt)	A80 Catch as % of Non- CDQ TAC	A80 Catch as % of Total Catch
	Aleutian Islands POP (AI POP)	10,787	12,756	12,714	117.86%	99.67%
	Atka Mackerel	51,000	54,045	51,804	101.58%	95.85%
	Flathead sole	17,000	13,807	11,521	67.77%	83.45%
	Pacific cod	176,375	196,495	29,728	16.86%	15.13%
	Rock sole	37,400	35,498	32,315	86.40%	91.04%
	Yellowfin sole	71,188	74,251	68,818	96.67%	92.68%
	Alaska Plaice	165,000	9,673	9,318	5.65%	96.33%
	Arrowtooth Flounder	10,200	12,858	9,560	93.73%	74.35%
2003	Greenland Turbot	3,400	3,465	857	25.21%	24.74%
2003	Northern Rockfish	5,100	4,651	4,545	89.12%	97.73%
	Other flatfish	2,550	2,871	2,400	94.13%	83.60%
	Other Rockfish	1,355	717	418	30.83%	58.30%
	Other Species	27,463	25,562	7,349	26.76%	28.75%
	Pollock	1,343,634	1,342,145	26,421	1.97%	1.97%
	Sablefish	5,076	1,937	211	4.15%	10.88%
	Shortraker/Rougheye Rockfish	822	397	217	26.35%	54.57%
	Squid	1,675	843	53	3.19%	6.34%
	Total	1,930,025	1,791,968	268,249	13.90%	14.97%
	AI POP	9,496	10,479	10,448	110.02%	99.71%
	Atka Mackerel	53,550	56,068	54,400	101.59%	97.03%
	Flathead sole	16,150	16,846	14,195	87.89%	84.26%
	Pacific cod	183,175	196,131	37,983	20.74%	19.37%
	Rock sole	34,850	47,789	43,910	126.00%	91.88%
	Yellowfin sole	73,164	69,188	63,292	86.51%	91.48%
	Alaska Plaice	8,500	7,587	7,267	85.49%	95.78%
	Arrowtooth Flounder	10,200	17,721	14,659	143.72%	82.72%
	Greenland Turbot	2,975	2,199	624	20.98%	28.39%
2004	Northern Rockfish	4,250	4,280	4,176	98.25%	97.55%
2004	Other flatfish	2,550	4,699	3,986	156.31%	84.83%
	Other Rockfish	930	635	383	41.15%	60.31%
	Other Species	23,124	26,051	7,568	32.73%	29.05%
	Pollock	1,347,660		35,552	2.64%	2.67%
	Rougheye Rockfish	1,347,660	1,331,102 206	160	96.20%	77.56%
	Sablefish	5,078	1,821	280	5.52%	
		3,078				15.39%
	Shortraker Rockfish		213 861	83	18.52%	38.82%
	Squid	1,084		298,999	3.17%	4.00%
	Total	1,777,349	1,793,875	298,999	16.82%	16.67%
	AI POP	9,520	8,930	8,687	91.24%	97.27%
	Atka Mackerel	53,550	57,643	56,572	105.64%	98.14%
	Flathead sole	16,575	15,217	12,101	73.01%	79.52%
	Pacific cod	175,100	190,942	30,532	17.44%	15.99%
	Rock sole	35,275	35,539	33,179	94.06%	93.36%
	Yellowfin sole	77,083	87,794	79,264	102.83%	90.28%
	Alaska Plaice	8,500	11,071	9,986	117.48%	90.20%
	Arrowtooth Flounder	10,200	13,660	10,763	105.52%	78.79%
	Greenland Turbot	2,975	2,535	652	21.91%	25.71%
2005	Northern Rockfish	4,250	3,748	3,568	83.95%	95.20%
	Other flatfish	2,975	4,525	3,667	123.27%	81.04%
	Other Rockfish	893	452	254	28.49%	56.26%
	Other Species	24,650	27,005	6,124	24.84%	22.68%
	Pollock	1,347,760	1,334,531	29,711	2.20%	2.23%
	Rougheye Rockfish	190	85	75	39.32%	87.47%
	Sablefish	4,790	1,983	359	7.49%	18.09%
	Shortraker Rockfish	507	161	40	7.83%	24.61%
	Squid	1,084	1,112	35	3.22%	3.14%
	Total	1,766,357	1,796,933	285,567	16.17%	15.89%

	AI POP	9,520	11,053	11,005	115.60%	99.57%
	Atka Mackerel	53,550	57,471	56,110	104.78%	97.63%
	Flathead sole	16,575	17,568	13,705	82.69%	78.01%
	Pacific cod	161,302	178,219	29,351	18.20%	16.47%
	Rock sole	35,275	34,281	31,015	87.92%	90.47%
	Yellowfin sole	81,346	92,747	78,285	96.24%	84.41%
	Alaska Plaice	6,800	17,076	13,403	197.11%	78.49%
	Arrowtooth Flounder	11,050	12,699	9,147	82.77%	72.03%
	Greenland Turbot	2,329	1,943	267	11.45%	13.73%
2006	Northern Rockfish	3,825	3,423	3,282	85.79%	95.87%
	Other flatfish	2,975	2,991	2,206	74.16%	73.77%
	Other Rockfish	893	560	250	28.03%	44.72%
	Other Species	24,650	24,599	7,484	30.36%	30.42%
	Pollock	1,353,610	1,337,264	23,595	1.74%	1.76%
	Rougheye Rockfish	190	201	167	87.74%	83.14%
	Sablefish	4,765	1,702	101	2.11%	5.90%
	Shortraker Rockfish	4,703	1,702	67	13.65%	33.79%
		1,084	1,321	14	1.27%	1.04%
	Squid		,			
	Total	1,770,232	1,795,315	279,454	15.79%	15.57%
	AI POP	15,080	16,337	15,683	104.00%	96.00%
	Atka Mackerel	53,550	54,168	53,740	100.36%	99.21%
	Flathead sole	25,500	17,669	12,444	48.80%	70.43%
	Pacific cod	145,112	160,851	33,475	23.07%	20.81%
	Rock sole	46,750	33,097	30,905	66.11%	
	Yellowfin sole	115,600	110,948	87,984	76.11%	79.30%
	Alaska Plaice	21,250	18,587	14,739	69.36%	79.30%
	Arrowtooth Flounder	17,000	10,479	6,056	35.63%	57.79%
	Greenland Turbot	2,074	1,753	271	13.08%	15.48%
2007	Northern Rockfish	6,962	3,854	3,771	54.17%	97.86%
2007	Other flatfish	8,500	5,482	4,359	51.28%	79.51%
	Other Rockfish	849	564	300	35.32%	53.17%
		31,752	23,477	9,646	30.38%	41.09%
	Other Species Pollock		,			
		1,271,510	1,216,105	20,925	1.65%	1.72%
	Rougheye Rockfish	172	155	116	67.38%	74.87%
	Sablefish	2,284	1,697	91	4.00%	5.38%
	Shortraker Rockfish	424	287	71	16.82%	24.87%
	Squid	1,675	1,073	13	0.75%	1.17%
	Total	1,766,044	1,676,580	294,590	16.68%	17.570/
		1,700,044		25 1,050	10.0870	17.57%
		Non-CDQ	Total Catch (All	Amendment 80	A80 Catch as % of Non-	A80 Catch as % of Total
Year	Species	Non-CDQ TAC (mt)	Total Catch (All vessels)	Amendment 80 (A80) Catch (mt)	A80 Catch as % of Non- CDQ TAC	A80 Catch as % of Total Catch
Year	AI POP	Non-CDQ TAC (mt) 10,881	vessels) 11,911	Amendment 80 (A80) Catch	A80 Catch as % of Non- CDQ TAC 107.60%	A80 Catch as % of Total Catch 98.29%
Year		Non-CDQ TAC (mt)	vessels)	Amendment 80 (A80) Catch (mt)	A80 Catch as % of Non- CDQ TAC	A80 Catch as % of Total Catch
Year	AI POP	Non-CDQ TAC (mt) 10,881	vessels) 11,911 55,879 16,221	Amendment 80 (A80) Catch (mt) 11,707	A80 Catch as % of Non- CDQ TAC 107.60%	A80 Catch as % of Total Catch 98.29%
Year	AI POP Atka Mackerel	Non-CDQ TAC (mt) 10,881 53,040	vessels) 11,911 55,879	Amendment 80 (A80) Catch (mt) 11,707 54,525	A80 Catch as % of Non- CDQ TAC 107.60% 102.80%	A80 Catch as % of Total Catch 98.29% 97.58%
Year	AI POP Atka Mackerel Flathead sole	Non-CDQ TAC (mt) 10,881 53,040 18,360	vessels) 11,911 55,879 16,221	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793	A80 Catch as % of Non- CDQ TAC 107.60% 102.80% 69.68%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87%
Year	AI POP Atka Mackerel Flathead sole Pacific cod	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910	vessels) 11,911 55,879 16,221 184,528	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265	A80 Catch as % of Non- CDQ TAC 107.60% 102.80% 69.68% 19.15%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01%
Year	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213	vessels) 11,911 55,879 16,221 184,528 37,241 86,986	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529	A80 Catch as % of Non- CDQ TAC 107.60% 102.80% 69.68% 19.15% 90.39%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46%
Year	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010	vessels) 11,911 55,879 16,221 184,528 37,241	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265	A80 Catch as % of Non- CDQ TAC 107.60% 102.80% 69.68% 19.15% 90.39% 90.26%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83%
	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,037	A80 Catch as % of Non- CDQ TAC 107.60% 102.80% 69.68% 19.15% 90.39% 90.26% 26.05% 85.57%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44%
2003-2007	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder Greenland Turbot	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730 2,751	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483 2,379	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,037 534	A80 Catch as % of Non- CDQ TAC 107.60% 102.80% 69.68% 90.39% 90.26% 26.05% 85.57% 19.42%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44% 22.46%
2003-2007	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder Greenland Turbot Northern Rockfish	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730 2,751 4,877	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483 2,379 3,991	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,037 534 3,868	A80 Catch as % of Non- CDQ TAC 107.60% 102.80% 69.68% 90.39% 90.26% 26.05% 85.57% 19.42% 79.31%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44% 22.46% 96.92%
2003-2007	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder Greenland Turbot Northern Rockfish Other flatfish	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730 2,751 4,877 3,910	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483 2,379 3,991 4,114	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,037 534 3,868 3,324	A80 Catch as % of Non- CDQ TAC 107.60% 102.80% 69.68% 19.15% 90.39% 26.05% 85.57% 19.42% 79.31% 85.00%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44% 22.46% 96.92% 80.80%
2003-2007	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder Greenland Turbot Northern Rockfish Other flatfish Other Rockfish	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730 2,751 4,877 3,910 984	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483 2,379 3,991 4,114 585	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,037 534 3,868 3,324 321	A80 Catch as % of Non- CDQ TAC 107.60% 102.80% 69.68% 19.15% 90.26% 26.05% 85.57% 19.42% 79.31% 85.00%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44% 22.46% 96.92% 80.80% 54.84%
2003-2007	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder Greenland Turbot Northern Rockfish Other flatfish Other Rockfish Other Species	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730 2,751 4,877 3,910 984 26,328	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483 2,379 3,991 4,114 585 25,339	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,037 534 3,868 3,324 321 7,634	A80 Catch as % of Non- CDQ TAC 107.60% 69.68% 19.15% 90.26% 26.05% 85.57% 19.42% 79.31% 85.00% 32.62% 29.00%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44% 96.92% 80.80% 54.84% 30.13%
2003-2007	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder Greenland Turbot Northern Rockfish Other Rockfish Other Rockfish Other Species Pollock	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730 2,751 4,877 3,910 984 26,328 1,332,835	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483 2,379 3,991 4,114 585 25,339 1,312,229	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,037 534 3,868 3,324 321 7,634 27,241	A80 Catch as % of Non- CDQ TAC 107.60% 69.68% 19.15% 90.39% 90.26% 26.05% 85.57% 19.42% 79.31% 85.00% 32.62% 29.00%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44% 96.92% 80.80% 54.84% 30.13% 2.08%
2003-2007	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder Greenland Turbot Northern Rockfish Other flatfish Other Rockfish Other Species Pollock Rougheye Rockfish	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730 2,751 4,877 3,910 984 26,328 1,332,835	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483 2,379 3,991 4,114 585 25,339 1,312,229 162	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,937 534 3,868 3,324 321 7,634 27,241 129	A80 Catch as % of Non-CDQ TAC 107.60% 102.80% 69.68% 19.15% 90.39% 90.26% 85.57% 19.42% 85.00% 32.62% 29.00% 2.04% 72.01%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44% 96.92% 80.80% 54.84% 30.13% 2.08% 79.96%
Year 2003-2007 Average	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder Greenland Turbot Northern Rockfish Other flatfish Other Rockfish Other Species Pollock Rougheye Rockfish Sablefish	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730 2,751 4,877 3,910 984 26,328 1,332,835 180 4,399	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483 2,379 3,991 4,114 5885 25,339 1,312,229 162 1,828	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,937 534 3,868 3,324 321 7,634 27,241 129 208	A80 Catch as % of Non-CDQ TAC 107.60% 102.80% 69.68% 19.15% 90.39% 90.26% 26.05% 85.57% 19.42% 79.31% 85.00% 32.62% 29.00% 2.04% 72.01% 4.73%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44% 96.92% 80.80% 54.84% 30.13% 2.08% 79.96% 11.39%
2003-2007	AI POP Atka Mackerel Flathead sole Pacific cod Rock sole Yellowfin sole Alaska Plaice Arrowtooth Flounder Greenland Turbot Northern Rockfish Other flatfish Other Rockfish Other Species Pollock Rougheye Rockfish	Non-CDQ TAC (mt) 10,881 53,040 18,360 168,213 37,910 83,676 42,010 11,730 2,751 4,877 3,910 984 26,328 1,332,835	vessels) 11,911 55,879 16,221 184,528 37,241 86,986 12,799 13,483 2,379 3,991 4,114 585 25,339 1,312,229 162	Amendment 80 (A80) Catch (mt) 11,707 54,525 12,793 32,214 34,265 75,529 10,942 10,937 534 3,868 3,324 321 7,634 27,241 129	A80 Catch as % of Non-CDQ TAC 107.60% 102.80% 69.68% 19.15% 90.39% 90.26% 85.57% 19.42% 85.00% 32.62% 29.00% 2.04% 72.01%	A80 Catch as % of Total Catch 98.29% 97.58% 78.87% 17.46% 92.01% 86.83% 85.50% 74.44% 22.46% 96.92% 80.80% 54.84% 30.13% 2.08% 79.96%

Year Species					Amendment 80		
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Alka Mackerel	Teal			,			
Flathead sole			,				
Pacific cod							
Neck sole							
Vellowfin sole							
Allaska Plaice							
Armotrooth Flounder G3,750 20,951 17,267 27,096 82,42% Northern Rockfish 6,953 2,946 2,785 40,05% 94,55% Other Rockfish 8,49 5,49 363 42,78% 66,11% Other Rockfish 8,49 5,49 363 42,78% 66,10% Other Rockfish 8,49 5,49 363 42,78% 66,10% Other Rockfish 712 193 117 68,08% 66,17% Rougheye Rockfish 42,13 1,613 221 5,49% 14,33% Sablefish 4,213 1,613 221 5,49% 14,33% Sablefish 4,213 1,613 221 5,49% 14,33% Sguid 1,675 1,496 82 4,89% 5,47% Total 1,635,437 1,401,627 332,815 20,35% 22,37% Year Species TAC (mt) (All A80 Catch Carch and							
All A80 Greenland Turbot 2,159 2,562 1,694 78,44% 66.11%							
Northern Rockfish 6.953 2.946 2.785 40.05% 94.55% 00000 00000 00000 00000 00000 00000 00000 000000	A11 A80						
Other Patrish 18.360 3.448 2.822 15.37% 81.86% Other Rockrish 849 549 363 42.78% 66.16% Other Rockrish 849 549 363 42.78% 66.16% Other Species 42.500 25.696 7.326 17.24% 28.3% Pollock 917,110 890,595 20.320 2.22% 2.28% Rougheye Rockfish 172 193 117 68.08% 66.06% Sablefish 4.213 1.613 231 5.49% 14.33% Shortraker Rockfish 3.60 1.44 70 19.31% 44.33% Shortraker Rockfish 1.635,437 1.401,627 332,815 20.35% 23.74% Year Species TAC (mt) Total A80 Catch A80 Catch A80 Catch Catch as % other and the state of the							
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Rougheye Rockrishs							
Sablefish 4,213							
Shortraker Rockfish 360							
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Total							
Year Species TAC (mt) (All A80 catch classes) A80 Cooperative Catch as % Total A80 Catch (All A80 vessels) TAC (mt) (All A80 catch classes) A80 Cooperative Catch (all A80 catch classes) TAC (mt) TAC (atch as % Total A80 Catch (mt) TAC (atch a8 % Total A80 Catch (mt) TAC (mt)							
Year Species TAC (mt) At a May Cach (mt) Catch (mt) Catc		10tai	1,033,437	1,401,027	332,813	20.3370	23.7470
ARO Coop Vessels Other Rackfish Other Species Year Species Year Species AI POP 15,628 14,852 7,056 50,906 21,436 50,906 21,436 50,906 21,436 39,55% 42,11% 50,906 19,008 10,933 39,55% 42,11% 88,80% 42,11% 88,80% 88	Year	Species	TAC (mt)		Cooperative	Cooperative Catch as %	Cooperative Catch as % of Total A80
Atka Mackerel 54,205 50,906 21,436 39,55% 42.11% Flathcad sole 44,650 19,068 16,933 37,92% 88.80% Rock sole 66,975 44,540 34,983 52,23% 78,54% Yellowfin sole 200,925 119,815 84,851 42,23% 78,54% Alaska Plaice 42,500 14,805 10,040 23,62% 67,81% ARO Coop Greenland Turbot 2,159 1,694 1,637 75,82% 96,66% Vessels Northern Rockfish 6,953 2,785 1,236 17,78% 44,33% 2008 Other Batrish 18,360 2,822 2,540 17,78% 44,38% 2008 Other Rockfish 6,953 2,785 1,236 17,78% 44,38% 2008 Other Rockfish 849 363 2,14 25,25% 90,03% Other Species 42,500 7,326 5,497 12,29% 75,03% Sablefish 4,213 <th< td=""><td>1000</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	1000						
Flathcad sole							
Pacific cod 152,433 15,752 13,518 8,87% 85,82% Rock sole 66,975 44,540 34,983 52,23% 78,54% 78							
Rock sole							
Vellowfin sole 200,925 119,815 84,851 42,23% 70,82% Alaska Plaice 42,500 14,805 10,040 23.62% 67,81% Arrowtooth Flounder 63,750 17,267 16,474 25,84% 95,40% A80 Coop Greenland Turbot 2,159 1,694 1,637 75,82% 96,66% Vevssels Northern Rockfish 6,953 2,785 1,236 17,78% 44,38% Other Rockfish 849 363 214 25,25% 59,03% Other Rockfish 849 363 214 25,25% 59,03% Other Species 42,500 7,326 5,497 12,93% 75,03% Pollock 917,110 20,320 16,900 1,84% 83,17% Rougheye Rockfish 172 117 53 30,99% 45,52% Sablefish 4,213 231 216 5,12% 93,29% Shortraker Rockfish 360 70 49 13,50% 69,93% Squid 1,675 82 77 4,58% 93,65% Total 1,635,437 332,815 233,707 14,29% 70,22% Year Species 7AC (mt) (All A80 Catch Catch (mt) 48,85% 52,49% Atka Mackerel 54,205 50,906 29,471 43,37% 57,89% Flathead sole 44,650 19,068 2,135 4,78% 11,20% Pacific cod 152,453 15,752 2,234 1,47% 14,18% Rock sole 66,975 44,540 9,557 42,77% 21,46% Pacific cod 152,453 15,752 2,234 1,47% 14,18% Rock sole 66,975 44,540 9,557 14,27% 21,46% Alaska Plaice 42,500 14,805 4,765 11,21% 32,19% Other Rockfish 849 363 149 17,53% 40,97% Other Species 42,500 7,326 1,829 4,30% 24,97% Other Species 42,500 7,326 1,82							
Alaska Plaice							
AR8 O Coop Greenland Turbot							
ASO Coop Greenland Turbot 2,159 1,694 1,637 75.82% 96.66% Northern Rockfish 6,953 2,785 1,236 17.78% 44.38% 2008 Other Platfish 18,360 2,822 2,540 13.83% 89.99% Other Rockfish 849 363 214 25.25% 59.03% 75.03% Pollock 917,110 20,320 6,497 12.93% 75.03% Pollock 917,110 20,320 16,900 1.84% 83.17% Sablefish 4,213 231 216 5.12% 93.29% Shortraker Rockfish 360 70 49 13.50% 69.93% Squid 1,675 82 77 4.58% 93.65% 70tal 1,635,437 332,815 233,707 14.29% 70.22% Pollock 7AC (mt) (All A80 vessels) Catch (mt) A80 L. Access Catch as % of Total A80 Catch A80 L. Access Catch (mt) A80 Catch							
Northern Rockfish 6,953 2,785 1,236 17.78% 44.38%	A 80 Coop						
Other flatfish 18,360 2,822 2,540 13,839 89,99%							
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Other Species	2000						
Pollock 917,110 20,320 16,900 1.84% 83.17% Rougheye Rockfish 172 117 53 30.99% 45.52% Sablefish 4,213 231 216 5.12% 93.29% Shortraker Rockfish 360 70 49 13.50% 669.93% Squid 1,675 82 77 4.58% 93.65% Total 1,635,437 332,815 233,707 14.29% 70.22% Year Species TAC (mt) (All A80 vessels) Catch (mt) as % TAC ARO L. Access Catch as % of Total ARO L. Access Catch Aroution of the foliation of the fo							
Rougheye Rockfish 172							
Sablefish 4,213 231 216 5.12% 93.29% Shortraker Rockfish 360 70 49 13.50% 69.93% Squid 1,675 82 77 4.58% 93.65% Total 1,635,437 332,815 233,707 14.29% 70.22% Species TAC (mt) Total A80 Catch (All A80 vessels) Catch (mt) as "TAC A80 L. Access Catch as "6 of Total as "TAC A80 L. Access Catch as "6 of Total as "TAC A80 Catch (mt) as "TAC A80 Catch							
Shortraker Rockfish 360							
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Year Species TaC (mt) Total A80 Catch (All A80 vessels) Catch (mt) as % TaC as % of Total A80 Catch (All A80 vessels) Catch (mt) C		Total	1,033,437	332,813	233,707	14.2970	70.2276
ARO L. Access Vessels 2008 ARO L. ACCESS Vessels Vessels 2008 ARO L. ACCESS Vessels 2008 ARO L. A	Year	1	TAC (mt)	(All A80 vessels)	Catch (mt)	Access Catch as % TAC	Access Catch as % of Total A80 Catch
Flathead sole			,				
A80 L. Access Vessels 2008 Pacific cod 152,453 15,752 2,234 1.47% 14.18% 14.18% Rock sole 66,975 44,540 9,557 14.27% 21.46% 29.18% Alaska Plaice 42,500 14,805 4,765 11.21% 32.19% Arrowtooth Flounder 63,750 794 1.24% 4.60% Northern Rockfish 6,953 2,785 1,549 22.28% Other flatfish 18,360 2,822 283 1.54% Other Rockfish Other Species 42,500 7,326 Alaska Plaice 42,500 7,326 1,829 4.30% 24,97% Pollock Pollock 917,110 20,320 3,420 0,37% 16,83% Rougheye Rockfish 4,213 Sablefish 4,213 231 16 0,37% 6,71% Shortraker Rockfish 360 70 21 5,81% 30,07% Squid 1,675 82 5 0,31% 6,35%							
Rock sole 66,975 44,540 9,557 14.27% 21.46%							11.20%
A80 L. Access Vessels 2008 Yellowfin sole 200,925 119,815 34,965 17.40% 29.18%							14.18%
A80 L. Access Vessels 2008 Alaska Plaice 42,500 14,805 4,765 11.21% 32.19% 4.60% Greenland Turbot 2,159 1,694 57 2.62% 3.34% Other Rockfish 6,953 2,785 1,549 22.28% 55.62% Other Rockfish 849 363 149 17.53% 40.97% Other Species 42,500 7,326 1,829 4.30% 24.97% Pollock 917,110 20,320 3,420 0.37% 16.83% Rougheye Rockfish 4,213 231 16 0.37% 6.71% Sablefish 5,007% Squid 1,675 82 5 0.31% 6.35%							21.46%
A80 L. Access Vessels 2008 Arrowtooth Flounder 63,750 17,267 794 1.24% 4.60% 3.34% 5.62% 5					, , , , , , , , , , , , , , , , , , , ,		29.18%
ASO L. Access Vessels 2008 Greenland Turbot 2,159 1,694 57 2.62% 3.34% 55.62% 55.62% Other Rockfish Other Rockfish Other Rockfish 849 363 149 17.53% 40.97% Other Species 42,500 Pollock 917,110 20,320 3,420 0.37% Rougheye Rockfish Sablefish Sablefish 4,213 Sablefish Shortraker Rockfish 360 70 21 5.81% 30.07% Squid 1,675 82 5 0.31% 6.35%							32.19%
Access Vessels 2008 Northern Rockfish Cype 1,694 Syperiment Cype 2,159 1,694 Syperiment Syperiment Cype 2,159 1,694 Syperiment Syperiment Cype 2,28% Syperiment Syperiment Syperiment Cype 2,28% Syperiment Syperiment Cype 2,28% Syperiment Syperiment Cype 2,28% Syperiment	A80 I						4.60%
Vessels 2008 Northern Rockfish 6,953 2,785 1,549 22.28% 55.62% Other flatfish 18,360 2,822 283 1.54% 10.01% Other Rockfish 849 363 149 17.53% 40.97% Other Species 42,500 7,326 1,829 4.30% 24.97% Pollock 917,110 20,320 3,420 0.37% 16.83% Rougheye Rockfish 172 117 64 37.09% 54.48% Sablefish 4,213 231 16 0.37% 6.71% Shortraker Rockfish 360 70 21 5.81% 30.07% Squid 1,675 82 5 0.31% 6.35%		Greenland Turbot			57		3.34%
Other flatrish 18,360 2,822 283 1.54% 10.01% Other Rockfish 849 363 149 17.53% 40.97% Other Species 42,500 7,326 1,829 4.30% 24.97% Pollock 917,110 20,320 3,420 0.37% 16.83% Rougheye Rockfish 172 117 64 37.09% 54.48% Sablefish 4,213 231 16 0.37% 6.71% Shortraker Rockfish 360 70 21 5.81% 30.07% Squid 1,675 82 5 0.31% 6.35%			6,953	2,785			55.62%
Other Rockfish 849 363 149 17.33% 40.97% Other Species 42,500 7,326 1,829 4.30% 24.97% Pollock 917,110 20,320 3,420 0.37% 16.83% Rougheye Rockfish 172 117 64 37.09% 54.48% Sablefish 4,213 231 16 0.37% 6.71% Shortraker Rockfish 360 70 21 5.81% 30.07% Squid 1,675 82 5 0.31% 6.35%							10.01%
Pollock 917,110 20,320 3,420 0.37% 16.83% Rougheye Rockfish 172 117 64 37.09% 54.48% Sablefish 4,213 231 16 0.37% 6.71% Shortraker Rockfish 360 70 21 5.81% 30.07% Squid 1,675 82 5 0.31% 6.35%	2000		849		149	17.53%	40.97%
Rougheye Rockfish 172 117 64 37.09% 54.48% Sablefish 4,213 231 16 0.37% 6.71% Shortraker Rockfish 360 70 21 5.81% 30.07% Squid 1,675 82 5 0.31% 6.35%		Other Species	42,500	7,326			
Sablefish 4,213 231 16 0.37% 6.71% Shortraker Rockfish 360 70 21 5.81% 30.07% Squid 1,675 82 5 0.31% 6.35%			917,110	20,320	3,420	0.37%	
Shortraker Rockfish 360 70 21 5.81% 30.07% Squid 1,675 82 5 0.31% 6.35%		Rougheye Rockfish			64	37.09%	
Squid 1,675 82 5 0.31% 6.35%		Sablefish	4,213	231	16	0.37%	6.71%
Squid 1,675 82 5 0.31% 6.35%		Shortraker Rockfish	360	70	21	5.81%	30.07%
			1,675	82	5	0.31%	6.35%
		Total	1,635,437	332,815	99,107	6.06%	29.78%

Year	Species	Non-CDQ	Total non-CDQ Catch (All vessels)	Amendment 80 (A80) Catch (mt)	A 80 Catch as % of Non-CDQ TAC	A80 Catch as % of Total Catch
rear	Species	TAC (mt)				
	AIPOP	13,377	13,237	12,348	92.31%	93.28%
	Atka Mackerel	68,225	64,756		90.19%	95.02%
	Flathead sole	53,580	19,041	13,924		73.13%
	Pacific cod	157,650	155,290			13.95%
	Rock sole	80,370	47,728			78.76%
	Yellowfin sole	187,530	105,787			87.76%
	Alaska Plaice	42,500	13,659			90.99%
	Arrowtooth Flounder	63,750	28,685	24,766	38.85%	86.34%
All A80	Greenland Turbot	6,273	4,316	2,878	45.88%	66.69%
Vessels	Northern Rockfish	6,086	2,715	2,560	42.06%	94.29%
2009	Other flatfish	14,790	2,143	1,783	12.06%	83.20%
	Other Rockfish	884	538	265	29.93%	49.15%
	Other Species	42,500	24,971	7,824	18.41%	31.33%
	Pollock	750,650	729,975		2.70%	2.77%
	Rougheye Rockfish	458	196			75.40%
	Sablefish	4,032	1,616			9.60%
	Shortraker Rockfish	329	1,616			57.97%
	Squid	1,675	344			41.57%
	Total	1,494,659	1,215,193	313,200	20.95%	25.77%
Year	Species	TAC (mt)	Total A80 Catch (All A80 vessels)	Catch (mt)	A80 Cooperative Catch as % TAC	of Total A80 Catch
	AIPOP	15,628	12,348	6,906	44.19%	55.92%
	Atka Mackerel	54,205	61,532	26,144	48.23%	42.49%
	Flathead sole	44,650	13,924	12,031	26.94%	86.40%
	Pacific cod	152,453	21,662		12.88%	90.65%
	Rock sole	66,975	37,592			89.56%
	Yellowfin sole	200,925	92,843			74.93%
	Alaska Plaice	42,500	12,428		25.37%	86.74%
	Arrowtooth Flounder	63,750	24,766		36.58%	94.16%
	Greenland Turbot	2,159	2,878			93.97%
Vessels	Northern Rockfish	6,953	2,560	1,213	17.45%	47.39%
2009	Other flatfish	18,360	1,783	1,685	9.18%	94.52%
	Other Rockfish	849	265	160	18.82%	60.38%
	Other Species	42,500	7,824	6,173	14.53%	78.90%
	Pollock	917,110	20,238	18,152	1.98%	89.69%
	Rougheye Rockfish	172	148	58	33.87%	39.49%
	Sablefish	4,213	155	146	3.46%	93.90%
	Shortraker Rockfish	360	113			75.80%
	Squid	1.675	143			89.91%
	Total	1,635,437	313,200	232,557	14.22%	74.25%
	Total	1,033,437	313,200	232,337	14.22/0	74.2370
Year	Species	Non-CDQ TAC (mt)	Total A80 Catch (All A80 vessels)	(mt)	TAC	A 80 L. Access Catch as % of Total A 80 Catch
	AIPOP	15,628	12,348	6,627		50.07%
	Atka Mackerel	54,205	61,532			56.19%
	Flathead sole	44,650	13,924	1,893	4.24%	9.94%
	Pacific cod	152,453	21,662	2,025	1.33%	1.30%
	Rock sole	66,975	37,592	3,923	5.86%	8.22%
	Yellowfin sole	200,925	92,843			22.01%
	Alaska Plaice	42,500	12,428			12.06%
	Arrowtooth Flounder	63,750	24,766			5.04%
A80 L.	Greenland Turbot	2,159	2,878			
Access	Northern Rockfish	6,953	2,560			49.60%
Vessels						
2009	Other flatfish	18,360	1,783			
	Other Rockfish	849	265			19.47%
	Other Species	42,500	7,824			
	Pollock	917,110	20,238	2,086	0.23%	0.29%
	Rougheye Rockfish	172	148	89	51.90%	45.62%
			155	9		
	Sablefish	4,213	133	,		
	Sablefish Shortraker Rockfish	4,213				
		4,213 360 1,675	113 113 143	27	7.60%	14.03%

Notes: Table 2-4 catch data do not include CDQ or State of Alaska Aleutian Islands Pacific cod fishery. Species allocated under the Amendment 80 Program are in bold. In 2003, rougheye and shortraker rockfish were assigned a combined TAC. The average 2003 through 2007 TAC for Rougheye and Shortraker does not include 2003 data. TAC and catch data for AI POP exclude all Bering Sea POP. Catch of species that exceeded the TAC is noted in bold. Catch data for Amendment 80 vessels do not include catch received from other vessels for processing (i.e., no data from deliveries of "bags over the side" is included).

Table 2-5 PSC Use by Amendment 80 vessels: 2003-2009

Species	Year	Total PSC use	Total	PSC use per	Percentage of
1		by	groundfish catch	mt of	average 2003-
		Amendment	by Amendment	groundfish	2007 PSC use
		80 vessels	80 vessels (mt)	caught	
	•		er Amendment 80 P	•	
Halibut	2003	2,649	268,249	0.009873	106.67%
(mt)	2004	2,800	298,999	0.009365	101.19%
	2005	2,698	285,567	0.009446	102.06%
	2006	2,541	279,454	0.009091	98.23%
	2007	2,519	294,590	0.008552	92.40%
	Ave. 2003-2007	2,641	285,367	0.009256	100.00%
	2008 All A80	1,969	332,815	0.005917	63.93%
	2008 A80 Coop	1,293	233,707	0.005533	59.78%
	2008 A80 L. Access	676	99,107	0.006821	73.70%
	2009 All A80	2,074	315,085	0.006582	71.12%
	2009 A80 Coop	1,497	232,557	0.006437	69.55%
	2009 A80 L. Access	577	82,825	0.006966	75.27%
Zone 1	2003	298,260	268,249	1.111877	152.18%
C. bairdi	2004	201,952	298,999	0.675427	92.44%
(Number	2005	204,679	285,567	0.716746	98.10%
of animals)	2006	194,835	279,454	0.697199	95.42%
ammais)	2007	142,783	294,590	0.484684	66.34%
	Ave. 2003-2007	208,502	285,367	0.730644	100.00%
	2008 All A80	141,418	332,815	0.424915	58.16%
	2008 A80 Coop	106,683	233,707	0.456482	62.48%
	2008 A80 L. Access	34,735	99,107	0.350480	47.97%
	2009 All A80	166,289	315,085	0.527759	72.23%
	2009 A80 Coop	131,718	232,557	0.566390	77.52%
	2009 A80 L. Access	34,571	82,825	0.417398	57.13%

	2009 All A80	23	315,085	0.000073	33.90%
	2008 All A80	79	332,815	0.000236	109.83%
	Ave. 2003-2007	61	285,367	0.000215	100.00%
	2007	57	294,590	0.000193	89.87%
	2006	24	279,454	0.000086	39.89%
	2005	80	285,567	0.000310	130.12%
(mt)	2004	95	298,999	0.000133	146.80%
Herring	2009 A80 L. Access	52	268,249	0.108941	38.98% 89.52%
	2009 A80 Coop 2009 A80 L. Access	50,406 9,023	232,557 82,825	0.216747 0.108941	38.98%
	2009 All A80	59,429	315,085	0.188613	67.49% 77.56%
	2008 A80 L. Access	29,427	99,107	0.296922	106.25%
	2008 A80 Coop	48,931	233,707	0.209369	74.92%
Animals)	2008 All A80	78,358	332,815	0.235440	84.25%
of	Ave. 2003-2007	79,749	285,367	0.279461	100.00%
Crab (Number	2007	82,827	294,590	0.281159	100.61%
King	2006	68,962	279,454	0.246775	88.30%
Bay Red	2005	96,576	285,567	0.338191	121.02%
Bristol	2003	74,661	298,999	0.249703	89.35%
Zone 1	2003	75,719	268,249	0.282272	101.01%
	2009 A80 L. Access	39416	82,825	0.475895	9.23%
	2009 A80 Coop	315586	232,557	1.357026	26.31%
	2009 All A80	355002	315,085	1.126686	21.85%
	2008 A80 L. Access	314114	99,107	3.169443	61.46%
	2008 A80 Coop	286,785	233,707	1.227113	23.79%
	2008 All A80	600,898	332,815	1.805502	35.01%
Allilliais)	Ave. 2003-2007	1,471,704	285,367	5.157234	100.00%
of Animals)	2007	1,135,312	294,590	3.853870	74.73%
(Number	2006	818,705	279,454	2.929658	56.81%
COBLZ	2005	3,109,441	285,567	10.888657	211.13%
C. opilio	2003	1,710,702	298,999	5.721431	110.94%
Zone 1	2003	Table 2-5 (c	268,249	2.178433	42.24%
	2009 A80 L. Access	92,330 Table 2.5 (82,825	1.114760	69.32%
	2009 A80 Coop	135,339	232,557	0.581961	36.19%
	2009 All A80	227,669	315,085	0.722564	44.93%
	2008 A80 L. Access	173,863	99,107	1.754296	109.09%
	2008 A80 Coop	211,799	233,707	0.906259	56.36%
	2008 All A80	385,662	332,815	1.158788	72.06%
	Ave. 2003-2007	458,892	285,367	1.608075	100.00%
animals)	2007	418,098	294,590	1.419254	88.26%
of	2006	502,716	279,454	1.798922	111.87%
(Number	2005	430,732	285,567	1.508340	93.80%
C. bairdi	2003	367,327	298,999	1.228523	76.40%
Zone 2	2003	575,585	268,249	2.145712	133.43%

Non-	2003	109	268,249	0.000408	4.08%
Chinook	2004	4,513	298,999	0.015092	150.92%
Salmon	2005	225	285,567	0.000789	7.89%
(No. of animals)	2006	9,001	279,454	0.032210	322.10%
aiiiiiais)	2007	420	294,590	0.001425	14.25%
	Ave. 2003-2007	2,854	285,367	0.010000	100.00%
	2008 All A80	871	332,815	0.002617	26.17%
	2009 All A80	1,247	315,085	0.003958	39.58%

Notes: Table 2-5 data do not include CDQ or State of Alaska Aleutian Islands Pacific cod fishery. Data for Amendment 80 vessels do not include catch received from other vessels for processing.

Table 2-6 Percent of Amendment 80 Allocations Caught or Used by Amendment 80 Sector (2008 only)

(2000 only)			
Species	of animals)	Total Catch or Use by Amendment 80 vessels (mt or No. of animals)	Percentage of Allocation Caught or Used (mt or No. of animals)
	ndment 80 Vessels		
Groundfish (mt)			
Aleutian Islands POP (AI POP)	14,936	14,852	99.44%
Atka Mackerel	51,953	50,906	97.98%
Flathead sole	40,150	19,068	47.49%
Pacific cod	20,429	15,752	77.10%
Rock sole	61,975	44,540	71.87%
Yellowfin sole	160,413	119,815	74.69%
PSC			
Halibut (mt)	2,525	1,969	77.99%
Zone 1 <i>C. bairdi</i> (No. of animals)	460,674	141,418	30.70%
Zone 2 <i>C. bairdi</i> (No. of animals)	784,789	385,662	49.14%
Zone 1 C.opilio COBLZ (No. of Animals)	2,386,668	600,898	25.18%
Zone 1 Bristol Bay Red King Crab (No.of Animals)	104,427	78,358	75.04%
	ent 80 Cooperative		
Groundfish (mt)	•		
Aleutian Islands POP (AI POP)	7,016	7,056	100.57%
Atka Mackerel	22,914	21,436	93.55%
Flathead sole	35,758	16,933	47.35%
Pacific cod	17,135	13,518	78.89%
Rock sole	47,003	34,983	74.43%
Yellowfin sole	98,982	84,851	85.72%
PSC	,		
Halibut (mt)	1,837	1,293	70.39%
Zone 1 C. bairdi (No. of animals)	340,520	106,683	31.33%
Zone 2 C. bairdi (No. of animals)	580,311	211,799	36.50%
Zone 1 C.opilio COBLZ (No. of Animals)	1,632,432	286,785	17.57%
Zone 1 Bristol Bay Red King Crab (No.of Animals)	78,631	48,931	62.23%
	Limited Access Fis		
Groundfish (mt)			
Aleutian Islands POP (AI POP)	7,920	7,796	98.43%
Atka Mackerel	30,339	29,471	97.14%
Flathead sole	4,392	2,135	48.61%
Pacific cod	3,294	2,234	67.81%
Rock sole	14,972	9,557	63.83%
Yellowfin sole	61,431	34,965	56.92%
PSC	,	,	
Halibut (mt)	688	676	98.26%
Zone 1 <i>C. bairdi</i> (No. of animals)	120,154	34,735	28.91%
Zone 2 <i>C. bairdi</i> (No. of animals)	204,477	173,863	85.03%
Zone 1 C.opilio COBLZ (No. of Animals)	754,235	314,114	41.65%
Zone 1 Bristol Bay Red King Crab (No.of Animals)	31,284	29,427	94.06%

Table 2-7 Percent of Amendment 80 Allocations Caught or Used by Amendment 80 Sector (2009 only)

	Initial TAC		
	Allocation to		Percentage of
	Amendment 80	by Amendment 80	Allocation Caught
	vessels (mt or No.	vessels (mt or No. of	or Used (mt or No.
Species	of animals)	animals)	of animals)
All Ame	ndment 80 Vessels		
Groundfish (mt)			
Aleutian Islands POP (AI POP)	12,396	12,348	99.61%
Atka Mackerel	62,034	61,532	99.19%
Flathead sole	49,080	13,924	28.37%
Pacific cod	27,125	21,662	79.86%
Rock sole	75,370	37,592	49.88%
Yellowfin sole	146,376	92,843	63.43%
PSC			
Halibut (mt)	2,475	2,074	83.80%
Zone 1 C. bairdi (No. of animals)	437,658	166,289	38.00%
Zone 2 C. bairdi (No. of animals)	745,536	227,669	30.54%
Zone 1 C.opilio COBLZ (No. of Animals)	2,341,763	355,002	15.16%
Zone 1 Bristol Bay Red King Crab (No.of Animals)	104,437	59,429	56.90%
Amendn	ent 80 Cooperative	2	
Groundfish (mt)			
Aleutian Islands POP (AI POP)	4,940	4,572	92.55%
Atka Mackerel	27,456	26,144	95.22%
Flathead sole	43,351	12,031	27.75%
Pacific cod	23,654	19,637	83.02%
Rock sole	56,811	33,668	59.26%
Yellowfin sole	87,987	69,564	79.06%
PSC			
Halibut (mt)	1,793	1,497	83.49%
Zone 1 C. bairdi (No. of animals)	321,922	131,718	40.92%
Zone 2 C. bairdi (No. of animals)	548,443	135,339	24.68%
Zone 1 C.opilio COBLZ (No. of Animals)	1,544,825	315,586	20.43%
Zone 1 Bristol Bay Red King Crab (No.of Animals)	74,351	50,406	67.79%
Amendment 80	Limited Access F	ishery	
Groundfish (mt)			
Aleutian Islands POP (AI POP)	6,573	6,627	100.83%
Atka Mackerel	38,398	36,385	94.76%
Flathead sole	5,729	1,893	33.04%
Pacific cod	3,471	2,025	58.34%
Rock sole	18,559	3,923	21.14%
Yellowfin sole	58,389		39.87%
PSC			
Halibut (mt)	682	577	84.67%
Zone 1 C. bairdi (No. of animals)	115,736		29.87%
Zone 2 C. bairdi (No. of animals)	197,093		10.81%
Zone 1 C.opilio COBLZ (No. of Animals)	722,587		5.45%
Zone 1 Bristol Bay Red King Crab (No.of Animals)	30,086		29.99%

Notes: Table 2-6 and Table 2-7 catch data do not include CDQ or State of Alaska Aleutian Islands Pacific cod fishery. Catch data for Amendment 80 vessels do not include catch received from other vessels for processing. In 2008, Aleutian Islands POP was not exceeded by the cooperative, because catch includes reallocated catch from the BSAI trawl limited access sector through inseason action.

Table 2-8 Amendment 80 QS Allocations to the cooperative and limited access fishery (2008)

			Percent of QS	TAC or PSC
	Percent of QS	TAC or PSC	pool assigned to	assigned to
	pool assigned to	assigned to A80	A80 limited	A80 limited
Species	A80 cooperative	cooperative	access fishery	access fishery
Groundfish (mt)				
Aleutian Islands POP (AI POP)	46.98%	7,016	53.02%	7,919
Atka Mackerel	41.63%	21,611	58.37%	30,335
Flathead sole	89.06%	37,986	10.94%	4,665
Pacific cod	83.88%	17,135	16.12%	3,294
Rock sole	75.82%	49,279	24.18%	15,696
Yellowfin sole	60.22%	86,529	39.78%	57,168
PSC				
Halibut (mt)	72.75%	1,837	27.25%	688
Zone 1 C. bairdi (No. of animals)	73.94%	340,520	26.06%	31,284
Zone 2 C. bairdi (No. of animals)	73.92%	580,311	26.08%	754,235
Zone 1 C.opilio COBLZ (No. of Animals)	68.40%	1,632,432	31.60%	120,154
Zone 1 Bristol Bay Red King Crab (No.of Animals)	71.54%	580,311	28.46%	204,477

Table 2-9 Amendment 80 QS Allocations to the cooperative and limited access fishery (2009)

				TAC or PSC
	Percent of QS	TAC or PSC	Percent of QS	assigned to
	pool assigned	assigned to	pool assigned	A80 limited
	to A80	A80	to A80 limited	access
Species	cooperative	cooperative	access fishery	fishery
Groundfish (mt)				
Aleutian Islands POP (AI POP)	42.91%	4,940	57.09%	6,573
Atka Mackerel	41.69%	27,456	58.31%	38,398
Flathead sole	88.33%	43,351	11.67%	5,729
Pacific cod	87.20%	23,654	12.80%	3,471
Rock sole	75.38%	56,811	24.62%	18,559
Yellowfin sole	60.11%	87,987	39.89%	58,389
PSC				
Halibut (mt)	72.44%	1,793	27.56%	682
Zone 1 C. bairdi (No. of animals)	73.56%	321,922	26.44%	115,736
Zone 2 C. bairdi (No. of animals)	73.56%	548,443	26.44%	197,093
Zone 1 C.opilio COBLZ (No. of Animals)	68.13%	1,544,825	31.87%	722,587
Zone 1 Bristol Bay Red King Crab (No.of Animals)	71.19%	74,351	28.81%	30,086

Table 2-10 Total Groundfish Catch of Select Species by All Vessels and All Amendment 80 Vessels in the Western GOA (Area 610) from 2003-2009

			Total	Amendment		A80 Catch as
Vaar	Spacing	TAC(mt)	(All	80 (A80)	as % of TAC	
Year	Species Arrowtooth Flounder	TAC (mt) 8,000	vessels) 8,211	7,818		
	Flathead Sole	2,000	525	424		
	Northern Rockfish	890	449	424		
	Pacific cod		16,235	644		
2003		15,450				
	Pelagic Shelf Rockfish (PSR)	510 2,700	226 2,124	211 2,114		
	Pacific Ocean Perch (POP) Shallow water flatfish		-			99.51%
	Total	4,500 34,050	202 27,973	104		51.61%
	Total	34,030	21,913	11,746	34.50%	41.99%
	Arrowtooth Flounder	8,000	9,518	2,565	32.06%	26.94%
	Flathead Sole	2,000	2,585	730	36.49%	28.23%
	Northern Rockfish	770	1,030	1,015		98.49%
2004	Pacific cod	16,957	15,614	644	3.80%	4.12%
2004	Pelagic Shelf Rockfish (PSR)	370	285	244	65.95%	85.73%
	Pacific Ocean Perch (POP)	2,520	2,196	2,194		99.89%
	Shallow water flatfish	4,500	186	72	1.61%	38.79%
	Total	35,117	31,414	7,462	21.25%	23.75%
	Arrowtooth Flounder	8,000	2,545	2,077	25.97%	81.63%
	Flathead Sole	2,000	611	567		92.72%
	Northern Rockfish	808	575	569		99.01%
	Pacific cod	15,687	36,160	261		0.72%
2005	Pelagic Shelf Rockfish (PSR)	377	121	106		87.67%
	Pacific Ocean Perch (POP)	2,567	2,338	2,335		99.89%
	Shallow water flatfish	4,500	122	81		66.15%
	Total	33,939	42,472	5,996	17.67%	14.12%
	Arrowtooth Flounder	8,000	2,042	1,369	17.11%	67.03%
	Flathead Sole	2,000	462	400		86.48%
	Northern Rockfish	1,483	972	879		90.39%
	Pacific cod	20,141	40,205	232		0.58%
2006	Pelagic Shelf Rockfish (PSR)	1,438	558	524		93.97%
	Pacific Ocean Perch (POP)	4,155	4,051	4,019		99.22%
	Shallow water flatfish	4,500	240			
	Total	41,717	48,530	7,521	18.03%	
			·			
	Arrowtooth Flounder	8,000	3,147			
	Flathead Sole	2,000	696			
	Northern Rockfish	1,439	1,108	1,063		
2007	Pacific cod	20,141	38,455	576		
	Pelagic Shelf Rockfish (PSR)	1,466	595	571		
	Pacific Ocean Perch (POP)	4,244	4,430			97.74%
	Shallow water flatfish	4,500	281	60		
	Total	41,790	48,712	9,674	23.15%	19.86%

A	Arrowtooth Flounder		5,093	3,267		64.15%
	Flathead Sole		976	537		55.07%
	Northern Rockfish		827	791		95.72%
Ave. 2003-	Pacific cod		29,334	471		1.61%
2003-	Pelagic Shelf Rockfish (PSR)		357	331		92.77%
2007	Pacific Ocean Perch (POP)		3,028	2,998		99.03%
	Shallow water flatfish		206	83		40.30%
	Total	-	39,820	8,480		21.29%
	Arrowtooth Flounder	8,000	3,175	2,074	25.93%	65.33%
	Flathead Sole	2,000	288	203	10.14%	70.36%
	Northern Rockfish	2,141	1,918	1,871	87.37%	97.52%
2008	Pacific cod	19,449	41,947	465	2.39%	1.11%
2008	Pelagic Shelf Rockfish (PSR)	1,003	577	565	56.35%	97.95%
	Pacific Ocean Perch (POP)	3,686	3,682	3,453	93.67%	93.77%
	Shallow water flatfish	4,500	761	56	1.25%	7.38%
	Total	40,779	52,348	8,686	21.30%	16.59%
	Arrowtooth Flounder	8,000	1,521	1,210	15.13%	79.55%
	Flathead Sole	2,000	303	178	8.90%	58.75%
	Northern Rockfish	2,054	1,947	1,943	94.60%	99.79%
2009	Pacific cod	16,175	15,165	466	2.88%	3.07%
2009	Pelagic Shelf Rockfish (PSR)	819	717	699	85.35%	97.49%
	Pacific Ocean Perch (POP)	3,713	3,806	3,453	93.00%	90.73%
	Shallow water flatfish	4,500	97	69	1.53%	71.13%
	Total	37,261	23,556	8,018	21.52%	34.04%

Table 2-11 Total Groundfish Catch of select species by All Vessels and All Amendment 80 Vessels from 2003-2008 Central GOA (Area 620 & 630)

2003	Arrowtooth Flounder	25,000	22,149	14,524	58.09%	65.57%
	Flathead Sole	5,000	1,934	1,300	26.01%	67.22%
	Pacific cod	22,690	24,869	1,568	6.91%	6.31%
	Shallow water flatfish	13,000	4,442	54	0.42%	1.22%
	Total	65,690	53,395	17,446	26.56%	32.67%
2004	Arrowtooth Flounder	25,000	16,169	3,872	15.49%	23.95%
	Flathead Sole	5,000	2,473	524	10.49%	21.21%
	Pacific cod	27,116	27,421	832	3.07%	3.03%
	Shallow water flatfish	13,000	3,010	278	2.14%	9.23%
	Total	70,116	49,073	5,506	7.85%	11.22%
2005	Arrowtooth Flounder	25,000	17,379	7,035	28.14%	40.48%
	Flathead Sole	5,000	1,941	1,215	24.29%	62.58%
	Pacific cod	25,086	22,751	877	3.50%	3.85%
	Shallow water flatfish	13,000	4,676	347	2.67%	7.43%
	Total	68,086	46,747	9,474	13.91%	20.27%
2006	Arrowtooth Flounder	25,000	25,579	10,504	42.02%	41.06%
	Flathead Sole	5,000	2,679	1,469	29.37%	54.82%
	Pacific cod	28,405	23,171	1,029	3.62%	4.44%
	Shallow water flatfish	13,000	7,411	279	2.15%	3.76%
	Total	71,405	58,839	13,280	18.60%	22.57%
2007	Arrowtooth Flounder	30,000	22,187	14,561	48.54%	65.63%
	Flathead Sole	5,000	2,467	1,037	20.73%	42.02%
	Pacific cod	28,405	26,213	640	2.25%	2.44%
	Shallow water flatfish	13,000	8,511	35	0.27%	0.41%
	Total	76,405	59,377	16,272	21.30%	27.41%
	Arrowtooth Flounder		20,692	10,504		50.76%
Ave.	Flathead Sole		2,299	1,109		48.24%
2003-	Pacific cod		24,885	989		3.97%
2007	Shallow water flatfish		5,610	199		3.54%
	Total	-	53,486	12,800		23.93%
	Arrowtooth Flounder	30,000	26,048	7,790	25.97%	29.91%
	Flathead Sole	5,000	3,135	1,427	28.53%	45.51%
2008	Pacific cod	28,426	27,747	554	1.95%	2.00%
	Shallow water flatfish	13,000	8,922	37	0.29%	0.42%
	Total	76,426	65,852	9,807	12.83%	14.89%
	Arrowtooth Flounder	30,000	23,303	2,913	9.71%	12.50%
	Flathead Sole	5,000	3,355	427	8.54%	12.73%
2009	Pacific cod	23,641	23,227	707	2.99%	3.04%
_00/	Shallow water flatfish	13,000	8,384	70	0.54%	0.83%
	Total	71,641	58,269	4,117	5.75%	7.07%

Notes: Table 2-10 and Table 2-11 contain data from species that have been traditionally harvested by Amendment 80 vessels. Catch from the West Yakutat District (Area 640) are excluded for confidentiality. Data from some fisheries (e.g., rex sole, deep water flatfish) have been excluded for confidentiality. Catch data from fisheries that are not open to directed fishing are not included, because those species are on bycatch or PSC status (e.g., shortraker and thornyhead rockfish). Catch data from Central GOA Rockfish fisheries are not included, because those species are harvested under the Central GOA Rockfish Program and are not available to Amendment 80 vessels, except for those vessels qualified for that program.

Table 2-12 Total Halibut PSC use by All Vessels and All Amendment 80 Vessels from 2003-2008 Central & Western GOA (Areas 610, 620 & 630)

Management Area	Year	Total Halibut PSC	Amendment 80	Amendment 80
		use (All vessels)	Vessel Halibut	PSC as % of Total
		(mt)	PSC use (mt)	PSC use
Western GOA	2003	405	255	63%
(Area 610)	2004	594	176	30%
	2005	202	136	67%
	2006	258	90	35%
	2007	325	188	58%
	Ave. 2003-2007	357	169	47%
	2008	307	127	41%
	2009	259	82	31%
Central GOA	2003	1955	590	30%
(Areas 620 & 630)	2004	2498	590	24%
	2005	2112	427	20%
	2006	2057	467	23%
	2007	1907	245	13%
	Ave. 2003-2007	2106	464	22%
	2008	2043	333	16%
	2009	1809	211	12%

Notes: Table 2-12 displays PSC data from all fisheries in the Central and Western GOA, including fixed-gear and fisheries not included in Table 2-6 and Table 2-10. Table 2-12 includes PSC data from the Central GOA Rockfish Program fisheries. Confidentiality requirements limit NMFS' ability to release PSC data that are more narrowly defined to specific target fisheries.

2.3.7.3 Trends and Factors in Amendment 80 Fishery Performance

Although conclusions based on two years of data (2008 and 2009), when compared to historical fishery patterns (2003 through 2007), should be considered tenuous and may not reflect future fishery performance, these data suggest several conditions may exist.

First, according to Table 2-3, in each year from 2003 through 2007, the Amendment 80 fleet exceeded the TAC for either the Aleutian Islands POP fishery or the Atka mackerel fishery.³¹ With the implementation of Amendment 80, neither TAC was exceeded. The

³¹ The 2010 SSL BiOp closures of Atka in the AI may increase pressure on POP or other species, altering this interpretation of the LAPP's effect.

ability to consistently harvest less than the TAC is typically observed under LAPP management. It is notable that the Amendment 80 fleet did not exceed TAC, even though a substantial portion of the total Amendment 80 ITAC was harvested by vessels under the limited access fishery (see Table 2-6 and Table 2-7). This suggests that the limited number of participants in the limited access fishery faced less competition. This may have <u>reduced</u>, but not eliminated the incentive to race for fish to some degree and improved the ability of NMFS to maintain the fishery catch below TAC. As an example, NMFS inseason staff noted improved communication with the limited access fishery participants, when coordinating fishery closures, which facilitated timelier fishery closures.³²

Second, the Amendment 80 sector harvested a substantially greater portion of the BSAI TAC and total catch in 2008, than in any previous year, roughly 54,000 metric tons, or 19 percent more groundfish than the 2003 through 2007 average (see Table 2-4). A similar, pattern emerged in 2009. Some of this increased catch is due to the sharp increases in yellowfin sole, rock sole, and flathead sole TAC in 2008 and 2009, relative to previous years, providing additional harvest opportunities to the fleet. The Amendment 80 fleet increased its total groundfish harvest without apparently being constrained by its Pacific cod allocation or PSC allowance, in particular halibut PSC (see Table 2-5). Prior to the start of fishing, several Amendment 80 participants expressed concern that the allocation of Pacific cod and halibut PSC allowance may not be sufficient to support a directed Pacific cod fishery, and may constrain fishing operations for other Amendment 80 species, generally. BUC cooperative representatives noted that the cooperative strictly limited Pacific cod catch, particularly operations specifically targeting Pacific cod. ³³ Due to the limited Pacific cod ITAC assigned to the limited access fishery, NMFS did not open Pacific cod for directed fishing in that fishery.

Third, although a substantial percentage of the Amendment 80 allocation of flathead sole, rock sole, yellowfin sole was unharvested in 2008 and 2009, when compared to the amount of catch harvested by Amendment 80 vessels in previous years, the fleet caught substantially more of these species. Data from Table 2-4 note that in 2008, the Amendment 80 fleet caught 49 percent, 30 percent, and 62 percent more metric tons of flathead sole, rock sole, and yellowfin sole, respectively, compared to average catch during 2003 through 2007. A cooperative representative noted that market conditions and other economic considerations made by individual companies in the cooperative and limited access fishery may have also affected decisions to harvest catch. Icing conditions during the period when flathead sole is traditionally harvested may have been a factor as well. Harvesters may have curtailed harvests in response to more limited demand from customers who may not have been able to access credit easily, under current global economic conditions.³⁴ Finally, as noted earlier, the transition from a race for fish to LAPP management can be complicated. The fleet may need additional time to adapt to the changing conditions that such a management system imposes. The fleet increased its

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³² Steve Whitney, NMFS Inseason staff, Personal communication.

³³ Jason Anderson, BUC Manager, Personal Communication.

³⁴ Bill Orr, BUC President, Personal Communication.

harvest of yellowfin sole in 2009, relative to the 2003 through 2007 average harvests, but flathead sole and rock sole harvests were within average ranges.

Fourth, even though a substantial portion of the Amendment 80 fleet was not under cooperative management in 2008 (see Table 2-6), the fleet dramatically reduced its PSC, both in total amount and in terms of use rates, when compared to historical use during 2003 through 2007 (Table 2-5); and when compared to the total allowance available (Table 2-6). These data provide perhaps the best evidence that LAPP management can quickly and dramatically change fishery behavior. A greater percentage of the total halibut PSC and red king crab PSC apportioned to the limited access fishery were used in 2008, relative to the cooperative (Table 2-6). The species targeted by the limited access fishery differed from the cooperative, with an overall greater focus on Atka mackerel and Aleutian Islands Pacific ocean perch, which could also account for some of the different PSC use rates observed in 2008 (Table 2-6). Under the limited access fishery, NMFS will close a specific target fishery for a species or complex, once the PSC limit has been reached, rather than closing all fishing. This reduces the incentive for harvesters to carefully monitor PSC use overall, when compared to cooperative management, because the overall effect of reaching a PSC cap is less constraining on multi-species operations.

Although general climatic conditions may be a factor in halibut abundance in a given area during a period of time, the Amendment 80 fleet did undertake a number of measures to reduce PSC. For example, the cooperative and the participants in the limited access fishery expanded contracted with SeaState Inc. to provide company specific haul-by-haul data, and the cooperative received aggregate halibut PSC rates for the cooperative. These data aided the companies as they considered where to direct their vessels in order to minimize PSC and maximize groundfish catch.³⁵

In addition, a cooperative representative noted that the fleet reduced fishing at night. Fishing at night can result in higher halibut PSC rates per metric ton of groundfish. Cooperative representatives also noted generally improved coordination among the members of the cooperative and the expanded use of halibut excluder devices. Cooperative representatives cited the ability to move to areas with lower PSC, without the fear of losing fishing time typical of a race for fish, as the most important factor contributing for lower PSC rates. ³⁶

Participants in the limited access fishery did not expand the use of halibut excluder devices or otherwise coordinate extensively. Representatives from FCA, one of the two companies active in the limited access fishery in 2008 and 2009, noted that the other vessels fishing in the limited access fishery in 2008, did not have LLP licenses permitting those vessels to fish in the Aleutian Islands. During periods of high halibut PSC rates in the yellowfin sole fishery, FCA vessels were able to shift effort to Aleutian Islands Atka mackerel and AI POP, which typically have lower halibut PSC bycatch rates. Because

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³⁵ See BUC 2008 Cooperative Report (BUC 2009) for additional discussion on the reporting techniques used by cooperative managers to monitor fleet operations.

³⁶ Bill Orr, BUC President & Jason Anderson, Personal Communication.

FCA did not face competition in these fisheries, FCA was able to operate in a manner that did not require a race for fish. However, this situation is unique to the specific vessels and LLP licenses assigned to the limited access fishery during 2008 and 2009. Those conditions may not exist in the future. The recent restrictions of significant portions of the Aleutian Islands to protect Steller sea lions may preclude the ability of FCA, and other Amendment 80 operators to shift effort to species with lower halibut PSC. Rates may increase in the future. Due to these unique conditions in the limited access fishery, FCA representatives also chose to suspend operations for yellowfin sole for most of May, due to poor quality, low catch per unit effort, and high halibut PSC rates, relative to other periods of the year. FCA vessels that were active in the yellowfin sole fishery shifted into other fisheries, such as the Central GOA Rockfish Program, and shifted back to the yellowfin sole fishery once product quality and halibut PSC rates improved.³⁷

Fourth, assessing the effects of Amendment 80 on fishing behavior in the GOA is complicated by the recent implementation of the Central GOA Rockfish Program. Of the 28 originally qualifying Amendment 80 vessels and Amendment 80 LLP licenses, 12 of those vessels and LLP licenses are eligible to participate in the Central GOA Rockfish Program. The Central GOA Rockfish Program allocated Rockfish QS to LLP holders based on landings of primary rockfish species (northern rockfish, pelagic shelf rockfish, and Pacific ocean perch) attributed to that LLP license. On an annual basis, participants may decide to join a rockfish cooperative and receive rockfish CQ based on the sum of the rockfish QS of the LLPs assigned to the cooperative by its members. LLP holders can receive an exclusive harvest privilege on an annual basis, only by joining a cooperative. LLP holders with QS based on harvesting and processing rockfish onboard a catcher/processor (C/P) can only form cooperatives with other C/P LLP holders. LLP holders with QS based on rockfish harvested on a catcher vessel (CV) designation can only form cooperatives with other CV LLP holders. Alternatively, LLP holders can choose to fish in a limited access fishery within that sector (C/P or CV). The limited access fishery comprises the annual catch amount for the program that is left after C/P or CV cooperatives form. Finally, LLP holders in the C/P sector can choose to "opt-out" of most of the aspects of the program. Only LLP licenses and vessels assigned to a Central GOA Rockfish cooperative or limited access fishery may directed fish for northern rockfish, pelagic shelf rockfish, and Pacific ocean perch in the Central GOA. In addition, the Central GOA Rockfish Program allocates a small portion of the Central GOA TAC of sablefish, thornyhead rockfish, rougheye rockfish, and shortraker rockfish as CO to participants in a C/P cooperative. Participants in the Rockfish limited access fishery are subject to a reduced maximum retainable allowance (MRA) for these species when they are directed fishing for northern rockfish, pelagic shelf rockfish, and Pacific ocean perch in the Central GOA.

The Central GOA Rockfish Program also imposes a series of sideboard limits on all Rockfish QS holders that limits the amount of Western GOA and West Yakutat northern

³⁷ Mike Szymanski & Bill McGill, teleconference, and personal communication.

rockfish, pelagic shelf rockfish, and Pacific ocean perch that vessels may harvest in July. Additionally, catcher/processors are subject to limits on the amount of halibut PSC that they may incur in the month of July. These halibut PSC limits are further subdivided by target categories for deep water (e.g., Pacific cod) and shallow water species (e.g., flathead sole). Finally, C/Ps in a cooperative are assigned specific Western GOA and West Yakutat groundfish, and deep and shallow water halibut PSC sideboards applicable to that cooperative. C/Ps participating in the Central GOA Rockfish limited access or optout fishery are subject to sideboard limits that are a proportion of the sideboard limits that remain after cooperative sideboard limits have been determined.

Under the Amendment 80 Program, Amendment 80 vessels fishing in the GOA are subject to similar Western GOA and West Yakutat northern rockfish, pelagic shelf rockfish, and Pacific ocean perch sideboard limits, as well as limits on Pacific cod and pollock (with one exception for the F/V *Golden Fleece* which is prohibited from directed fishing for rockfish, Pacific cod, or pollock). The Amendment 80 Program also imposes deep and shallow water halibut PSC sideboards, but applies them on a seasonal basis (This restriction does not apply to the F/V *Golden Fleece*). In addition, only a specific list of vessels may participate in the directed flatfish fisheries in the GOA. Table 2-13 summarizes the sideboard limits applicable under both of these LAPPs.

Table 2-13 GOA Sideboard limits under Central GOA Rockfish Program and Amendment 80 Program

Management Area	Species	LAPP	Sideboard limit
Western GOA	Northern rockfish	Amendment 80	NR = 100 % of TAC
(Area 610)	(NR), pelagic shelf		PSR = 76.4 % of TAC
	rockfish (PSR), and		POP = 99.4 % of TAC
	Pacific ocean perch	Central GOA	NR = 78.9% of TAC
	(POP)	Rockfish Program	PSR = 63.3% of TAC
		Tto United Trogram	POP = 76.0% of TAC
	Pacific cod, and	Amendment 80	Pacific cod = 2.0 % of TAC
	Pollock	1 1111011011101110	Pollock = 0.3 % of TAC
Central GOA	Pacific cod, and	Amendment 80	Pacific cod = 4.4 % of TAC
(Area 620 & 630)	Pollock		Pollock (Area 620) = 0.2 % of TAC
()			Pollock (Area 630) = 0.2 % of TAC
West Yakutat	NR, PSR, POP	Amendment 80	PSR = 89.6 % of TAC
(Area 640)	, , , -		POP = 96.1 % of TAC
		Central GOA	PSR = 72.4% of TAC
		Rockfish Program	POP = 76.0% of TAC
	Pacific cod, and	Amendment 80	Pacific cod = 3.4 % of TAC
	Pollock		Pollock = 0.2 % of TAC
All GOA	Shallow water	Amendment 80	Season 1 = 0.48 % of PSC limit
	Halibut PSC		Season 2 = 1.89 % of PSC limit
	species		Season 3 = 1.46 % of PSC limit
			Season 4 = 0.74 % of PSC limit
			Season 5 = 2.27 % of PSC limit
		Central GOA	(Season 3) = 0.54 % of PSC limit
		Rockfish Program	
	Deep water Halibut	Amendment 80	Season 1 = 1.15 % of PSC limit
	PSC species		Season 2 = 10.72 % of PSC limit
	•		Season 3 = 5.21 % of PSC limit
			Season 4 = 0.14 % of PSC limit
			Season $5 = 3.71$ % of PSC limit
		Central GOA	(Season 3) = 3.99 % of PSC limit
		Rockfish Program	
		essel specific sideboar	rd restrictions
All GOA for F/V	N/A	Amendment 80	F/V Golden Fleece is prohibited from
Golden Fleece			directed fishing Western GOA and West
			Yakutat rockfish, All GOA Pacific cod
			and pollock. Vessel is not subject to
			Amendment 80 halibut PSC sideboard
]		limits.
All GOA for			Only the 11 Amendment 80 vessels
directed flatfish			listed in Table 39 to part 679 may
			directed fish for flatfish in the GOA.

Notes: Central GOA Rockfish Program sideboard limits in Table 2-13 apply only from July 1-31. Each cooperative receives a specific sideboard limit that is a suballocation of this total limit. All Rockfish limited access and opt-out fishery vessels are subject to the sideboard limit remaining after allocation to Rockfish Cooperatives. Rockfish halibut PSC sideboard limits in July correspond to Season 3. Halibut PSC season dates are defined in the annual GOA harvest specifications. Deep water halibut PSC species include directed fishing for: arrowtooth flounder, deep-water flatfish, and rex sole. Shallow water halibut PSC species include directed fishing for: flathead sole, Pacific cod, pollock, shallow-water flatfish, and other species.

Because of the complex interrelationship of the Central GOA Rockfish Program allocations, Amendment 80 sideboard limits in the GOA, and Central GOA Program sideboard limits in the GOA for non-Central GOA Rockfish fisheries, it is difficult to discern if fishing patterns in the GOA in 2008 are primarily due to Amendment 80, the Central GOA Rockfish Program, a combination of both LAPPs, or other factors. A more complete description of the complicated catch accounting and management arrangements that may exist between the Amendment 80 and Central GOA Rockfish Program is found in the EA/RIR/IRFA prepared to relieve sideboard measures applicable to catcher/processors eligible to participate in Central GOA Rockfish Program and the BSAL.³⁸

Although vessels fishing in cooperatives in the BSAI could expand their efforts in the GOA, the potential effect on fishing practices in the GOA from these cooperatives would probably be limited to shifts in harvest patterns among Amendment 80 vessels active in the Western GOA and West Yakutat Rockfish fisheries, but not necessarily changes in the total amount of catch taken in those fisheries or the specific vessels active in those fisheries. This conclusion is supported by the following factors.

First, increased effort in the Central GOA rockfish fisheries by Amendment 80 vessels is prevented by the Central GOA Rockfish Program.

Second, based on data in Table 2-10, historically almost all of the Western GOA TAC has been caught almost exclusively by Amendment 80 vessels and the sideboard applicable to those rockfish fisheries in the Western GOA and West Yakutat District are not constraining (see Table 2-13). In 2008, Amendment 80 vessels caught roughly the same amount of Western GOA Rockfish as they had historically. However, NMFS staff noted that harvest rates of Western GOA rockfish fisheries were higher in 2008 and 2009 than in previous years, suggesting that the participation patterns of vessels may have shifted.³⁹ Prior to Amendment 80, GOA and BSAI rockfish fisheries opened on July 1, forcing vessel operators to make operational choices to ensure that they had adequate fishing opportunities in these management areas. It is possible that the implementation of the Central GOA Rockfish Program and the Amendment 80 Program will allow vessels in an Amendment 80 cooperative to avoid a race for fish in the Western GOA or West Yakutat District and begin fishing earlier or later than July 1 in those fisheries. Vessels that had previously chosen to leave the Western GOA earlier in July to ensure they had adequate opportunity in the BSAI, or that did not fish extensively in the Western GOA, may have additional incentive to fish in the Western GOA in a race for fish before or after fishing for under a cooperative. A similar pattern of incentives could exist in the West Yakutat District, but those data cannot be released due to confidentiality restrictions.

³⁹ Steve Whitney, NMFS Inseason staff, personal communication.

³⁸ This document is available through the Council's website at: http://www.alaskafisheries.noaa.gov/npfmc/analyses/RPP_cpJulystandown508.pdf

Third, increased effort in GOA flatfish fisheries is unlikely, because the Amendment 80 Program limits the number of Amendment 80 vessels that can fish in the GOA directed flatfish fisheries to 11 vessels.⁴⁰ Although it is possible that participation in an Amendment 80 cooperative could allow those vessels to enter the GOA, if they were not constrained by a race for fish in the BSAI, data from Table 2-10 and Table 2-12 do not indicate a substantial increase of flatfish harvests in 2008 or 2009, relative to the average harvests during 2003 through 2007. In addition, all the Amendment 80 vessels eligible to directed fish for flatfish in the GOA were assigned to the Amendment 80 cooperative in 2008 and 2009, with one exception (i.e., F/V Ocean Alaska). This would suggest that any effect of Amendment 80 cooperatives on GOA flatfish patterns should have been observed, assuming other factors such as the need to use vessels to harvest the relatively large BSAI TAC of flatfish species in 2008, has not diverted effort that could have been used in the GOA. However, it does not appear that vessel participation in the GOA flatfish fisheries by Amendment 80 vessels changed dramatically in 2008 or 2009. The number of Amendment 80 vessels eligible to directed fish for flatfish in the GOA that have participated has been constant in recent years (Table 2-14). NMFS Inseason staff indicate that the specific Amendment 80 vessels historically active in the GOA directed flatfish fisheries in 2008 and 2009, were consistently active in prior years as well. 41

Table 2-14 Number of Amendment 80 vessels eligible to directed flatfish in the GOA that did directed fish for flatfish 2003-2009

Year	2003	2004	2005	2006	2007	2008	2009
Number of vessels	11	7	7	7	9	6	6

2.3.8 Cooperative Formation Standards and Decisions to Join a Cooperative

Three broad factors are likely to affect the choice of participants to join a cooperative: (1) the appeal of the "outside" option of the limited access fishery; (2) the nature of the cooperative model chosen; and (3) the specific circumstance of the participant and the circumstances in the fisheries.

2.3.8.1 Potential Benefits of Cooperative vs. Limited Access Fishery

As noted earlier, the advantages of joining a cooperative arise from receiving an exclusive allocation and ending the race for fish. In addition, fishery participants in cooperatives are permitted to pool groundfish retention with application of the GRS rates at the cooperative, rather than at the individual vessel level. Depending on the structure of the cooperative, harvesters may consolidate operations and integrate their fishing operations to improve revenues and reduce costs. Depending on the circumstances, the "outside" option of fishing in the limited access fishery may not be significantly less attractive to a specific fishery participant. For example, if a vessel faces extremely limited or no competition in the limited access fishery, no race for fish may occur.

⁴⁰ See Table 39 to part 679 for a list of the eligible Amendment 80 vessels at: http://www.alaskafisheries.noaa.gov/rr/tables/tabl39.pdf

⁴¹ Steve Whitney and Josh Keaton, NMFS Inseason staff, Pers. Comm.

Alternatively, a vessel with high catch rates may have an opportunity to harvest a greater amount of fish in the limited access fishery than would likely result from the QS they would bring to a cooperative, if it can successfully compete with other vessels in the limited access fishery for access to that catch.⁴² In both of these examples, if the vessel operator is able to meet GRS compliance requirements in the limited access fishery with little complication, those requirements may not affect the decision to join a cooperative.

In some circumstances, a small vessel operator with limited QS holding may have an advantage from foregoing cooperative membership, if the vessel can "fish into" the amount of ITAC assigned to the limited access fishery by other participants. This choice, however, will depend on whether the vessel believes that GRS compliance is achievable in the limited access fishery. As noted in Table 2-2, one owner is active in both the cooperative and the limited access fishery. This may provide the best evidence that vessel owners can perceive a greater benefit in participation in the limited access fishery than fishing under a cooperative, or it may reflect participation decisions based upon other considerations.

Conversely, larger vessel owners with larger QS allocations may find the limited access option substantially less attractive, if there is considerable risk that competition from other vessels will reduce their catch in the limited access fishery. In any case, the choice to participate in the limited access fishery involves some risk, since participants must choose whether to join a cooperative or fish the limited access at the same time each year. So, by reducing risk and providing some assurance of catch, a cooperative offers more certain benefits.

From a management prospective, cooperative management offers several clear benefits relative to limited access fisheries. First, under limited access fishery management, NMFS retains responsibility for actively opening and closing fisheries. Depending on the nature of the fishery, the timeliness of data reporting, and the relationship between actual and projected catch rates, overages are more likely to occur. Cooperatives face potential enforcement action for violations and have established effective means to communicate catch data to avoid these potential penalties. Overages that exceed TAC, or potentially ABC, undermine the conservation goals of the agency. Although data from 2008 and 2009 may not be indicative of future fishing patterns, the limited access fishery used a greater proportion of its available allocation of some PSC species than the cooperative, suggesting that increased opportunities for cooperative formation could further reduce PSC rates. As noted earlier in Section 2.3.3.3 of this analysis, the costs of limited access management are typically substantially higher than under cooperative management.

2.3.8.2 Cooperative Models

Some participants may find cooperative membership more or less attractive, depending on the degree to which the cooperative regulates the fishing activities of its members. Based on anecdotal information from other cooperative management programs (i.e.,

⁴² This, of course, presupposes the presence of others in the open access fishery who contribute their QS to the pool. This is not assured.

AFA, Central GOA Rockfish, and cooperatives in the BSAI crab rationalization program) there appear to be two distinct types of cooperative operations, "pass through cooperatives" and "integrated cooperatives," with a continuum between these extremes. Table 2-15 summarizes the ways in which these two basic models differ.

Table 2-15 Pass Through vs. Integrated Cooperative

Factor	Pass Through Cooperative	Integrated Cooperative
Coordination of Fishing Operations	 Members responsible for fishing allocation derived from their QS. Limited coordination of fishing practices. Cooperative managers provided limited catch information from other members. Cooperative members do not establish buffers for the entire cooperative. Each member is effectively assigned a "hard cap" to limit catch. 	 Fishing plan among members negotiated pre-season and modified during the season as necessary. Members coordinate vessels in fisheries and areas to minimizing bycatch and maximize profit (not based on past participation or QS holdings). Cooperative members have access to detailed catch and PSC rates of other cooperative members. Fishing vessels used and the amount harvested are not necessarily related to the amount of QS member assigns to the cooperative. A buffer is established for the entire cooperative to ensure CQ amounts are
Distribution of Costs	Operational costs fully borne by each participant.	not exceeded. Insurance costs pooled. Observer coverage requirements negotiated for all vessels under a single contract. Cooperative pays for fuel, labor, and other costs and those costs are split proportionally according to the cooperative contract.
Distribution of Revenues	Revenue not pooled. Each member receives value from the fish harvested on his vessels.	 Common marketing of cooperative product. Pooling net crew revenue among all vessel operators and crew proportional to total catch.

In the first two years of the program, BUC adopted a pass through cooperative structure, with specific provisions to address PSC rates and the management of GOA sideboard limits. The cooperative establishes target PSC rates and informs members of cooperative PSC rates in-season. Each company is responsible for managing the amount of PSC that would be derived from its QS, effectively acting as a limit for that vessel owner. If an owner reaches his assigned limit of Amendment 80 species CQ or PSC CQ, the owner may establish intra-cooperative trades for additional CQ with other cooperative members or stop fishing. In addition, BUC has established a "pass through" GRS compliance requirement, so that each company operating in the cooperative has an obligation to meet the GRS, or potentially face contractual penalties. No such penalties were assessed in 2008 or 2009. The BUC contract does allow vessel owners to pool the GRS of each of

⁴³ See BUC 2008 Cooperative Report (BUC 2009).

the companies operating within the cooperative, or to make private arrangements within the cooperative so that the GRS is "met" for a company, even if some vessels operated by a company did not meet the standard.

In 2008, BUC members also established a private agreement to apportion the Amendment 80 GOA Pacific cod and halibut PSC sideboard limit among members, as a means of effectively managing the sideboard limit. This agreement did not include participants in the limited access fishery and actions taken by the participants in the limited access fishery to fish more than their traditional amounts of GOA sideboard fisheries could affect this private contractual arrangement. In 2009, BUC members also established a private agreement to apportion the Amendment 80 GOA halibut PSC sideboard limit and coordinated fishing operations in the Central GOA rockfish fishery. BUC does not coordinate management of the Pacific cod fishery, or rockfish fisheries in the GOA. The fact that BUC membership does not extend to all members of the Amendment 80 sector makes coordination difficult and BUC relies on NMFS Inseason management for Pacific cod and rockfish. Halibut PSC management is undertaken because halibut PSC is almost exclusively taken by BUC members and fewer members within BUC are active in fisheries that use halibut PSC, reducing the coordination complexity for BUC. ⁴⁴

Several industry participants in BUC have indicated that they believe that, with time, a more integrated cooperative structure may develop as: (1) familiarity with the program grows; (2) GRS compliance becomes more challenging; (3) changes in market conditions and operational costs present challenges and opportunities; (4) TACs change; or (5) greater consolidation of vessel ownership occurs.

2.3.8.3 Factors affecting cooperative membership

Although not exhaustive, some of the factors harvesters are likely to consider when forming a cooperative are described below.

2.3.8.3.1 Historical relationships among participants:

Participants may have long standing relationships and alliances among owners and crew that facilitate cooperative relationships. Participants with similar approaches to marketing, fishing patterns, and operational styles may be easier to coordinate. Conversely, companies with a history of disagreement or distrust may be unwilling or unable to effectively compromise and meet the obligations necessary to implement cooperative management.

Given the complex nature of the program and the need to coordinate catch and PSC mortality, as well as ensure compliance with GRS requirements (and possibly harvests under GOA sideboards), establishing effective working relationships among the members of a cooperative is critical.

BSAI Amendment 93, Modifying Amendment 80 cooperative formation criteria

Secretarial Review Draft – RIR/EA/FRFA, October 2011

⁴⁴ Personal communication, Jason Anderson, BUC Manager, 2010.

2.3.8.3.2 Common economic interests

Presumably companies able to develop economic synergies could find it advantageous to establish and maintain cooperative relationships. The importance of aligned economic interests would likely vary, depending on the type of cooperative and participants' operations and markets. As an example, under a pass through cooperative model where each member of the cooperative is responsible for harvesting its own quota and PSC use, little consideration may be given to coordination of operational and marketing activities. In a more integrated cooperative model, participants may wish to have members able to coordinate the development of economic benefits from the cooperative. ⁴⁵

2.3.8.3.3 *QS holdings*

Presumably, prospective cooperative members with greater or more complementary QS holdings would be more attractive as cooperative members, because they could provide more useful CQ to the cooperative, increasing flexibility for the cooperative to ensure that its catch is efficiently harvested. Larger QS holders may be most desirable under an integrated cooperative model where the relative cost per unit of effort decreases as quota increases. Likewise, QS holders with allocations of relatively scarce or high demand species (including, PSC allowances) may be particularly desirable. Even under a pass through cooperative model, harvesters with these QS holdings could contribute to a buffer to ensure the cooperative stays below its CQ allocation.

2.3.8.3.4 GRS compliance

Larger vessels may be better suited to meet GRS requirements due to the greater amount of space available onboard to accommodate increased storage capacity required for the larger proportion of groundfish that will need to be retained as the GRS is increased. In addition, it may be possible that some of the largest Amendment 80 vessels could improve their retention of groundfish through the use of fish meal plants that are not feasible on smaller vessels. Generally, larger vessels would be more likely to have lower operational costs when retaining products than smaller vessels that would be required to make more frequent offloads. All Amendment 80 vessels may have difficulty finding markets for some groundfish species that may be required to be retained in greater proportions as the GRS is increased (e.g., Alaska plaice, northern rockfish, and arrowtooth flounder).

Members who primarily target species that can be harvested with lower incidental catch rates of other less valuable species may be desirable members of the cooperative, because the retention rate of those vessels would be expected to be high, increasing the overall retention rate of the cooperative. Vessels targeting species with a higher incidence of species that are less economically desirable may decrease net returns of the cooperative, as a whole, particularly under an integrated cooperative model, or may decrease overall retention by the cooperative. One would anticipate that such members may be less

⁴⁵ In all cases, participants will need to ensure that any market cooperation is permitted by antitrust law, which may include the development of a Fishermen's Collective Marketing Act. This paper does not examine compliance of activities with those requirements.

desirable as members of the cooperative, particularly if meeting GRS requirements becomes a concern.

The changes in operations to meet GRS requirements may increase operational costs at a proportionally greater rate for smaller vessels, and encourage smaller vessel owners to enter into and maintain cooperative membership with members that own larger vessels that may be better able to meet the GRS requirements. Owners of a single relatively small vessel particularly would be expected to desire a cooperative relationship, if they perceive GRS compliance as difficult or costly, and alternative fishing opportunities in the GOA (without the complication of GRS compliance) are not available. If smaller vessels are perceived as less able to meet the GRS, or are expected to adversely affect the ability of the cooperative to meet its GRS, because they have a low retention rate, these factors could adversely affect their negotiating leverage, particularly if other larger vessels can form and maintain cooperative participation without the smaller vessels.

Based on a review of 2008 data, it appears that all vessels in the limited access fishery and the cooperative met the GRS requirements independently. However, it is possible that a number of vessels that met the GRS requirements in 2008 and 2009 may face additional challenges as the GRS is increased. Table 2-16 provides an overview of the fishery performance in 2003 through 2007 and 2008. Although fishery performance in 2008 may not be indicative of future retention rates, it appears that very few, and possible none, of the vessels could achieve an 85 percent retention rate assuming current practices continue. Table 2-16 provides an overview of GRS retention by vessels that are less than 145' LOA, from 145' to 200' LOA, and vessels greater than 200' LOA. These categories are consistent with the discussion of retention rates by vessel size in Section 2.3.2. In addition, Table 2-17 provides retention rate by the BUC and the limited access fishery for 2008. Note that this table includes data from fisheries other than the Amendment 80 allocated species and therefore differs from retention data presented in BUC's 2008 cooperative report, which includes retention only for Amendment 80 species. Retention data from the limited access fishery are likely to underestimate total retention by the limited access fishery due to extrapolations of catch and retention from the F/V Alaska Ranger. Table 2-18 provides total retention by vessel size class. Table 2-19 provides an overview of retention rates by species category by quintiles or all of the Amendment 80 species and most non-Amendment 80 species. The table does not provide specific retention rates for sablefish, rougheye rockfish, and shortraker rockfish to avoid the potential release of confidential data. Overall, those three species comprise a small proportion of total groundfish harvest and retention. Retention rates from 2009 are not included because complete data are under review and are not available.

Table 2-16 Catch, and groundfish retention rate by Amendment 80 vessels by retention percentage (2008)

		Groundfish 1	Retention Rate		
	Less than 70%	70 – 75 %	75- 80%	Greater than 80%	
Number of vessels	4	7	7	4	
Total Catch (mt)	24,690	102,870	122,356	82,898	
Retained Catch (mt)	16,424	74,481	93,224	68,984	
Discarded Catch	7,780	28,389	29,132	13,914	
Retention Rate	65.38%	72.40%	76.19%	83.22%	
Total Catch (All vessels)	332,815				
Retained Catch (All vessels)	252,834				
Percent Retained (All vessels)	75.97%				

Table 2-17 Catch, and groundfish retention rate by Amendment 80 fishery sectors (2008)

	BUC (Cooperative)	Limited Access
Number of vessels	16	7
Total Catch (mt)	233,707	99,107
Retained Catch (mt)	178,840	74,160
Discarded Catch	54,867	24,947
Retention Rate	76.52%	74.83%

Table 2-18 Catch, and groundfish retention rate by Amendment 80 vessel size class (2008)

	Less than 145' LOA	145' to 200'	Greater than
		LOA	200' LOA
Number of vessels	12	8	9
Total Catch (mt)	81,219	96,849	154,747
Retained Catch (mt)	57,104	74,660	121,069
Discarded Catch	24,115	22,189	33,698
Retention Rate	70.03%	77.09%	78.24%

Table 2-19 Catch, and groundfish retention rate by species by Amendment 80 vessel size class (2008)

	Groundfish Retention Rate by Species				
Vessel Size Classes	Under 50%	50 to 70%	70 to 80%	80 to 90%	Greater than 90%
Under 145' LOA	Alaska plaice, Northern rockfish, Other flatfish, Pacific ocean perch, Other rockfish, Other species, squid	Arrowtooth, Pollock, Rock sole	Yellowfin Sole, Flathead sole, Greenland Turbot	Atka Mackerel	Pacific cod
145' to 200' LOA	Alaska plaice, Arrowtooth flounder, Other flatfish, Northern rockfish, Other species, squid	Greenland turbot, Other rockfish	Pollock, Pacific ocean perch, Rock sole	Flathead sole, Yellowfin sole	Atka mackerel, Pacific cod
Over 200' LOA	Alaska plaice, Other flatfish, Northern rockfish, Other species	Greenland turbot, Other rockfish, Rock sole	Flathead sole, Pollock, Yellowfin sole	Atka mackerel, Arrowtooth flounder,	Pacific ocean perch, Pacific cod

Tables 2-16 through 2-19 support the general assertions that larger vessels tend to have higher retention rates than smaller vessels, and that some species (e.g., Atka mackerel, and Pacific cod) have consistently high retention rates relative to other species (e.g., Alaska plaice, Northern rockfish). The retention rates in the cooperative and limited access fishery are similar, however, data from the *F/V Alaska Ranger* may not accurately reflect species groundfish retention by that vessel prior to its loss at sea.

An additional factor that may enter into the consideration of a vessel's ability to meet the GRS is the ongoing review of the Alternative Compliance and Safety Agreements (ACSA) by the United States Coast Guard (USCG). USCG developed the ACSA in 2006 in coordination with the Amendment 80 sector and several catcher/processors that use longline gear to fish for Pacific cod. Many of the Amendment 80 vessels engage in a variety of onboard processing activities that meet the definition of fish processing under USCG regulations and would therefore be subject to class and load line requirements. Class and load line requirements are designed to ensure that vessels are operated safely in a manner consistent with general principles of marine safety. Class and load line requirements for fish processing vessels include regular examination by a USCG accepted organization, such as the American Bureau of Shipping (ABS), *Det Norske Veritas* (DNV), a similarly qualified organization, or a surveyor of an accepted organization. These reviews and any vessel modifications to meet these requirements

⁴⁶ USCG defines a fish processing vessel as "a vessel that commercially prepares fish or fish products other than by gutting, decapitating, gilling, skinning, shucking, icing, freezing or brine chilling"

can be costly. Moreover, a number of the Amendment 80 vessels may not be able to meet class and load line requirements due to the age and construction of the vessels. The USCG developed the ACSA to encourage improved safety for these vessels, and minimize incentives for these vessels to operate as uninspected fishing vessels with minimal safety requirements.

Uninspected fishing vessels are limited from processing specific fishery products, whereas vessels that meet the ACSA requirements are able to retain a wider variety of products. Therefore, vessels have an incentive to ensure compliance with the ACSA, so that the maximum amount of product can be retained, thereby increasing the likelihood that the vessel will meet the GRS. Vessels that fail to meet the requirements of the ACSA may be disenrolled from the program. USCG required that vessels comply with the ACSA by December 31, 2008. USCG notified a number of Amendment 80 vessel operators that their vessels would be disenrolled from the ACSA and therefore unable to process and retain certain products. Those vessel operators worked with USCG to rectify their status.⁴⁷ However, should vessels fail to meet the ACSA standard in the future, or should additional requirements be imposed by the USCG at a future date, those vessels could be limited in the product forms they may retain and may have a more difficult time meeting the GRS requirements. These factors could reduce the attractiveness of these vessels as participants in a cooperative if the GRS is more likely to be constraining on the cooperative, as a whole.

GRS compliance could be improved, and therefore the attractiveness of a specific vessel owner as a cooperative member, if a vessel owner replaces an Amendment 80 vessel that has suffered a loss or is no longer able to be documented in a U.S. fishery. Amendment 80 vessel owners are able to replace their vessels consistent with the result of litigation in *Arctic Sole Seafoods v. Gutierrez* that allows "a qualified [Amendment 80 vessel] owner to replace a lost qualifying vessel with a single substitute vessel." Replacing a vessel with one with greater hold or processing capacity, class and load line certification, or possibly a fish meal plant would increase the retention rate compared to the vessel being replaced and would likely be more desirable in a cooperative. The Council is currently reviewing alternatives for allowing replacement vessels consistent with *Arctic Sole Seafoods v. Gutierrez* under Amendment 97.

The ability for a vessel operator to meet GRS requirements could become a requirement to join a cooperative under all of the alternatives to the extent that maintaining high GRS retention standards continues to be a concern for Amendment 80 vessel owners pending recent Council action to remove the regulatory requirement that the GRS cannot be exceeded.

Regulations at 50 CFR 679.91(h)(3)(xiv) require that a cooperative have a membership agreement or contract. The regulations provide guidance on the terms that must be

⁽⁴⁶ USC 2101(11b). Regulations for classing a fish processing vessel are found at 46 CFR 28.710, and load line requirements are found at 46 CFR 42.03-05.

⁴⁷ LCDR Lisa Ragone, 17th Coast Guard District, personal communication.

included in a cooperative contract (e.g., 50 CFR 679.91(h)(3)(xiii) cooperative's CQ permit is determined by the Amendment 80 cooperative contract signed by its members. Any violations of this contract by a cooperative member may be subject to civil claims by other members of the Amendment 80 cooperative."). However, the regulations do not prohibit a cooperative for establishing other terms and conditions that would be applicable to any prospective members of a cooperative. For example, the current BUC cooperative agreement contains numerous provisions that detail the requirements of vessel owners to maintain catch consistent with their agreement, the distribution of funds to pay for the cooperative's management, and other terms and conditions. Under the current regulatory structure a cooperative membership agreement could include terms that require that a vessel, or company, meet certain GRS requirements to become a party to the cooperative agreement (e.g., a prospective cooperative member would be allowed to join a cooperative only if the vessels owned by that prospective member met the GRS during the previous year). These conditions would be applicable to all prospective members and could constrain the ability of certain vessel owners who may not have met these GRS requirements. Additionally, a cooperative membership agreement could include terms that require the payment of fees or the exit from a cooperative if minimum GRS standards are not met. These terms and conditions could make it prohibitively costly for some vessel owners with lower GRS rates to become a member of a cooperative, if these terms are incorporated under a cooperative agreement. This potential barrier to cooperative membership would apply under any of the alternatives.

Even though an annual groundfish retention report is being developed to replace the GRS program, an incentive to join a cooperative still exists. The Council will continue to explore alternatives to the GRS program. Data from cooperative participation will be collected through the annual groundfish retention report and used for future consideration in rulemaking.

2.3.8.3.5 Enforcement Compliance

With any cooperative management structure, coordination is essential, both in terms of regulatory compliance and oversight of contractual relationships. Entities perceived to have a checkered past of historically poor compliance performance, or who are resistant to oversight and information sharing may be particularly unattractive as cooperative partners. In addition, regulations at 50 CFR 679.91(h)(3) clarify that "each member of the Amendment 80 cooperative is jointly and severally liable for any violations of the Amendment 80 Program regulations while fishing under the authority of a CQ permit. This liability extends to any persons who are hired to catch or receive CQ assigned to an Amendment 80 cooperative. Each member of an Amendment 80 cooperative is responsible for ensuring that all members of the cooperative comply with all regulations applicable to fishing under the Amendment 80 Program." This regulation has caused concern among some cooperative participants about their potential liability from some fishery participants. However, cooperative members could establish contracts that indemnify or otherwise compensate other members from potential violations they may incur. As an example, a cooperative could require members that are perceived as having a

poor compliance history to establish an escrow account with sufficient funds to cover any potential violations, prior to the start of a fishing year, to ensure that any potential costs would be quickly and efficiently paid.

The decision to impose liability on a cooperative for the actions of a cooperative member is made on a case-by-case basis. For example, violations by specific vessels operating under an AFA inshore cooperative permit have been assessed only against that vessel owner or operator, and not against the AFA inshore cooperative, as a whole, due to the facts surrounding_those violations. NOAA GCEL would evaluate the appropriateness of applying join and several liability in the Amendment 80 sector in a similar fashion.

2.3.8.3.6 Costs of cooperative participation

Establishing and maintaining a cooperative requires investments by its members to establish and oversee cooperative arrangements. These requirements impose additional costs on industry participants that may affect their decisions to establish or join a cooperative. For owners of single vessels with limited QS, the costs of cooperative membership could be disproportional, relative to expected benefits of cooperative membership. As an example, the one QS permit that has not yet been issued would be derived from the fishing activities of the F/V Golden Fleece. That QS permit would yield only 0.1 percent of the total QS pool, and would subject the vessel owner to requirements that they submit an annual economic data collection report, pay cooperative membership fees, and potentially adhere to other cooperative fishing agreements limiting catch in the BSAI or GOA that would be more costly than foregoing the QS. Similarly, vessel owners with relatively small QS holdings may choose to fish in the limited access fishery, if the perceived costs of complying with a cooperative arrangement would be greater than the potential benefits from fishing in the limited access fishery (e.g., small QS holders may have more opportunity to harvest more fish in the limited access fishery than they would be entitled to under a cooperative contract).

2.3.8.3.7 Coordination on non-cooperative quota fishing

Participants in the Amendment 80 sector are active in CDQ fisheries, various fisheries in the GOA, and BSAI species that are not allocated under the Amendment 80 Program (e.g., Alaska plaice, arrowtooth flounder). As part of the negotiating process, QS permit holders and vessel owners may wish to ensure that their activities in these other fisheries are not adversely affected. As an example, members of the existing cooperative privately negotiated the apportionment of GOA sideboard limits among cooperative members with historical activities in those fisheries. The ability of a cooperative to effectively address these fishing patterns may be a deciding factor for some QS holders' cooperative membership.

Currently, BUC has established a series of agreements concerning certain fisheries in the GOA. However, those arrangements do not include members of the limited access fishery. If certain members wish to better coordinate fishing operations in the GOA among all members (e.g., Western GOA Rockfish fisheries) they may have an incentive to accept members into a cooperative. Similarly, members for whom fishing in the GOA

is important may wish to establish contracts in coordination with the arrangements in the BSAI to protect their interests, and may resist membership if acceptable arrangements cannot be reached.

2.3.8.3.8 Harvesting capacity

Some participants in the Amendment 80 sector assert that persons who hold an LLP/QS license (i.e., QS without the accompanying vessel on which the CQ could be harvested) may not be able to effectively negotiate cooperative membership that provides a reasonable value for their QS. The validity of this assertion cannot be tested unless and until a person were to undertake the process of negotiation to become a member of a cooperative. The circumstances within the sector likely determine the extent of this effect. For example, a person with an LLP/QS license, who also owns an Amendment 80 vessel able to harvest the CQ yielded by the license, might be unaffected in negotiations. Furthermore, A LLP/QS holder who may represent the necessary third owner or ninth QS permit necessary to form a cooperative may be in strong negotiating position. Similarly, a license holder with strong historical relationships with other sector members who has valuable CQ to contribute to the cooperative for harvest by others may be unaffected. On the other hand, a relatively independent license holder with no well-established relationships could be disadvantaged, particularly if a large single cooperative within the sector has developed. In this circumstance, with the only outside opportunity being to assign the LLP/QS license to the limited access fishery without a vessel, the license holder is likely to be poorly positioned to negotiate a reasonable price for contributing QS to the cooperative. This circumstance is unlikely to persist, since a recent court order in the Arctic Sole Seafoods v. Gutierrez case allows Amendment 80 sector members who lose a vessel to replace that vessel. However, depending on the circumstances, vessel replacement may take one or more years, disadvantaging the license holder for a period of time.

2.3.8.3.9 Steller sea lion interim final rule

On December 13, 2010, NMFS published an interim final rule to implement Steller sea lion protection measures to insure that the BSAI management area groundfish fisheries off of Alaska are not likely to jeopardize the continued existence of the western distinct population segment of the Steller sea lions or adversely modify their designated critical habitat. The interim final rule is effective on January 1, 2011. (75 FR 77535; December 13, 2010).

The interim final rule places a number of restrictions on Amendment 80 harvests of Atka mackerel and Pacific cod in management areas 541, 542, and 543. These areas cover the central and western Aleutian Islands. The regulations are described in the afore-cited federal register notice, and are described, along with their rationale, in Chapter 2 of the EA/RIR prepared to accompany the rulemaking (NMFS, 2010).

The EA/RIR provides additional details about the impacts of the action on the regional fisheries. The new rule will significantly reduce harvests of Atka mackerel and Pacific cod in the Aleutian Islands. If the rule had been in effect over the years 2004 to 2009, it

is estimated that it would have reduced Atka mackerel harvests in the Aleutian Islands to about 45 percent of their baseline levels (the median estimated annual residual harvest for that period). Atka mackerel are harvested by Amendment 80 vessels. (NMFS, 2010: 10-50).

Trawl catcher/processor harvests of Pacific cod were estimated to decline to about 50 percent of their previous levels (using the same metric) (NMFS, 2010: 10-56). The trawl catcher/processor fisheries include Amendment 80 harvests of Pacific cod, as well as harvests by other operations. Amendment 80 Pacific cod harvest changes were not estimated separately for confidentiality reasons. The rule will not change the tonnage content of Pacific cod quota share because the Pacific cod TAC is a BSAI-wide TAC; it will affect the efficacy of its harvest by selected Amendment 80 vessels. These will not have as much flexibility to harvest it in the Aleutian Islands as they have in the past.

The rule is expected to cause directly regulated vessels to increase their fishing effort in the Bering Sea, in order to minimize their losses. These vessels are likely to increase their harvests of yellowfin sole, northern rock sole, and Pacific cod. The EA/RIR pointed to the potential for halibut prohibited species catch (PSC) constraints to limit the ability of the displaced fleet in its harvests of these three key species. (NMFS 2010: 10-62)

Amendment 80 cooperatives must apply for cooperative quota no later than November 1 of the year prior to the fishing year (50 CFR 679.91(b)(3)). The Amendment 80 program has been in effect since 2008, and one cooperative operated from 2008 through 2010. In 2010, 18 vessels participated in this cooperative and 9 vessels participated in Amendment 80 limited access fisheries for various species. For the fishing year 2011, NMFS has been notified that all Amendment 80 vessels will participate in one of two Amendment 80 cooperatives: 18 vessels will participate in the original cooperative (formerly the Best Use Cooperative, and since renamed the Alaska Seafood Cooperative), and 9 in a new cooperative called the Alaska Groundfish Cooperative. (NMFS AKR, Sustainable Fisheries In-season Management Branch) Thus, following the publication of the draft SSL protection measures in August 2010, all fishing vessels were brought into cooperatives.

Cooperative formation will depend on many circumstances, and on complex, interacting decisions by the managers of the firms and cooperatives in the Amendment 80 fishery. Factors other than the SSL protection measures likely played a role in the change in cooperative structure in 2011; the principal firm in the new cooperative had previously sued NMFS about the difficulties it faced in entering a cooperative under Amendment 80 program rules, thus showing an interest in joining a cooperative prior to the publication of the draft Steller sea lion protection measures in August 2010. This discussion is limited to projecting ways in which the incentives firms face to form or maintain cooperatives may change because of the new SSL protection measures.

⁴⁸ With the exception of one Amendment 80 vessel which has never applied for quota share and has fished in the Gulf of Alaska.

The benefits of cooperative membership for an individual firm, or one of its vessels include the opportunity: (1) to access an allocation of the species, and to end the race for the fish, (2) to work jointly with other vessels to accomplish compliance with GRS requirements, and (3) to consolidate and integrate operations across vessels and firms, in order to harvest a given cooperative allocation at minimum cost. The size of these benefits will depend on the rules governing cooperative operation. Moreover, the benefits to a cooperative of an additional cooperative member may differ by potential member characteristics. The members of a cooperative or potential cooperative would face incremental benefits and costs associated with deciding whether or not to add an additional member. These will depend on the types of quota shares the potential member brings to the cooperative, the typical fishing patterns of the cooperative and the potential member, the personal relationships between the managers in the different firms and cooperatives, and on other factors.

Maximizing the value of remaining Atka mackerel quota share

The Amendment 80 vessels operating in the Aleutian Islands primarily target Atka mackerel. Pacific cod is mostly taken incidentally, or targeted in the Aleutians because the Amendment 80 vessels are there for the Atka mackerel. If the proposed measures had been in place in the years 2004 through 2009, the average annual reduction in Atka mackerel harvests in the region would have been about 55 percent (NMFS, 2010: 10-50). This reduction would have been associated with a large reduction in the need for fisheries capital in the fishery. In the past, seven catcher/processor vessels have pursued the targeted Aleutian Islands Atka mackerel fishery. It is likely that fewer vessels will be needed to harvest this Atka mackerel under the rule. Cooperative arrangements would provide a mechanism for reducing fishing capital that is no longer needed. Thus, the reduction in the harvest would increase the incentive for the impacted firms to be in a cooperative.

The protection measures close the fishery within critical habitat in Area 542, except that between 179 W and 178 W longitude federally permitted vessels participating in a harvest cooperative or fishing a CDQ allocation may fish in critical habitat between 10 and 20 nm. The amount of Atka mackerel harvest allowed inside critical habitat is limited to no more than 10 percent of the annual allocation for each harvest cooperative or CDQ group. (NMFS, 2010: 2-29). Thus, cooperative membership makes it possible for operations to fish within this portion of critical habitat. Industry sources indicate that Atka mackerel are larger in this area than outside critical habitat in Area 542, and bring a higher price. (NMFS, 2010: 10-111 and Table 10-59 on page 10-112). This provides an additional incentive for fishing operations with Atka mackerel quota share to join an Amendment 80 cooperative.

GRS

Aleutian Islands Atka mackerel and Pacific cod fisheries are relatively clean. They tend to catch lower volumes of associated non-target species. Because of this, firms with large

Aleutian Islands quotas or fishing histories are relatively more attractive to cooperatives than they would otherwise be. Firms that no longer bring as much of this quota share to the cooperative as before will be less valuable to the cooperative.

NMFS has recently published a rule to suspend the application of the GRS regulations in 2010, and during the first part of 2011 (through June 13, 2011) (75 FR 78172; December 15, 2010). NMFS may extend this emergency rule for a further 180 days (through December 15, 2011). Although the emergency rule, and its possible extension, have no effect in the last two weeks of 2011, it would be impossible for NMFS to calculate compliance. The Council is considering measures to implement a more permanent change to the GRS program (Council, 2010: 6). Thus, GRS considerations will not be important in 2010 and 2011. The importance of GRS considerations in 2012 and in subsequent years will depend on subsequent Council action and Secretarial rulemaking.

Bering Sea activity

Vessels seeking to minimize the costs of the action by shifting their operations into the Bering Sea may increase their harvests of other Amendment 80 species. They will use quota share they may have left unused in the past, or they will have to acquire quota share from other Amendment 80 participants with whom they are cooped, or they will have to lease quota share from community development quota (CDQ) groups.

The potential increase in demand for certain types of Amendment 80 quota share in the Bering Sea by these firms will increase their interest in becoming members of cooperatives. To some extent this increased demand will be moderated by their ability to lease quota share from CDQ groups. There have been significant amounts of unused yellowfin sole and northern rock sole CDQ in recent years.

Under Amendment 80, cooperatives receive allocations of PSC species for the use of their members. Tables in regulations specify the apportionment of halibut and crab PSC to the Amendment 80 sector in metric tons (Table 35 to Part 679) and the percentage of Amendment 80 PSC assigned to each of the Amendment 80 species (Table 36 to Part 679). This information, and information about the number of quota shares for each Amendment 80 species, make it possible to project the volume of PSC species per quota share. Given additional information about the quota share holdings of the firms in cooperatives or in the limited access fishery, it is possible to determine the PSC available to each cooperative.

A firm or vessel, will bring PSC to the cooperative for its use in different proportions, depending on its Amendment 80 quota share holdings. Firms with large amounts of Atka mackerel quota share will bring relatively little PSC of any species to a cooperative, unless they already have large allocations of Pacific cod, Flathead sole, rock sole, or yellowfin sole quota share (Pacific ocean perch quota share also have relatively little PSC attached). Thus firms operating targeting Atka mackerel in the Aleutian Islands will have

an increased interest in joining a cooperative with PSC, however, they may be limited in the amount of PSC they can offer an existing cooperative to help it fund its operations. On the other hand, in 2010, Pacific cod, rather than halibut PSC, was the limiting species for flatfish harvests in the Bering Sea. Firms with Pacific cod quota share they can no longer harvest in the Aleutian Islands may be able to offer this to cooperatives operating in flatfish fisheries in the Bering Sea to help them fund their operations. This may make them somewhat more attractive cooperative partners.

In addition to the advantages cooperatives offer with respect to gaining access to quota for different species, they also offer the potential advantages with respect to operational flexibility mentioned above. Operations that must increase their activity in the Bering Sea may find this flexibility attractive.

A cooperative may or may not be willing to accept a specific new member. It is possible that one or more firms within a cooperative may see an opportunity to force a competitor out of the business by denying that member access to an exchange of quota share or PSC within a cooperative. If this prevents a competitor from successfully offsetting its losses in the Aleutian Islands, and that competitor finds itself unable to continue in the fishing business, the competitor's assets, including its Amendment 80 quota allocations may come on the market in a forced sale. The firm could thus access additional quota share at fire sale prices, and also find itself with less competition in the product market. However, the intent of Amendment 93 is to make it easier to form cooperatives. Moreover, as of 2011, all Amendment 80 vessels are in cooperative arrangements.

2.3.8.4 Review of current cooperative standards

The current cooperative standards are intended to provide several benefits to sector members and fishery managers. Some of these benefits are more likely to be realized over time, so the failure to obtain the full intended benefit in the first few years of the program (i.e., all members under cooperative management) is not necessarily a failure of the formation standards. As previously described, numerous reasons exist why the limited access fishery may be preferred by some fishery participants. On the other hand, evolution of the fleet over time could prevent some of the benefits, or apparent benefits, realized in the first year of the program from being realized in future years.

The existing entity and vessel thresholds may provide benefits by encouraging associations, and possibly consolidation, among vessel owners. This, in turn, could provide additional benefits from the fisheries through greater production efficiencies (i.e., increasing revenues and decreasing costs). Recent consolidation among fishery participants, (i.e., in 2009, O'Hara Corporation entered into contracts that will result in a controlling interest in two QS permits previously held by the Trident Corporation), suggests that vessel owners may perceive a benefit in establishing larger corporate holdings. Although pass through cooperatives (such as the one formed in the first year of the program) may not achieve these as much as an integrated cooperative, it does represent a first step in development of more efficient operational associations. Management burdens also can be decreased through the consolidation of activities in

larger units, and transferring more of the day-to-day decisions and monitoring burden to cooperative members. As an example, NMFS does not close cooperatives from directed fishing, and the cooperative becomes responsible for ensuring its members are well-monitored, to avoid overages and potential violations.

The cooperative formation standards are also intended to interact with GRS for the benefit of smaller vessel owners who might otherwise have little negotiating leverage when interacting with other owners as the GRS is increased. Some assert that small vessels are a necessary lynchpin for other vessel owners to meet cooperative formation thresholds, thereby providing them with a relatively strong negotiating position. Even if smaller vessels may be perceived to be weakly positioned because of smaller allocations and potentially more costly compliance with GRS, if they are instrumental to meeting cooperative formation requirements, they may be able to overcome these shortcomings. In the first two years of the program, most small vessels joined the single cooperative that has formed.

Whether this membership indicates that the threshold is working as intended could be questioned for a few reasons. First, the cooperative is a pass through cooperative under which most members simply fish any allocation attributed to their own QS. In this cooperative structure, any benefit realized by small vessel owners is attributable only to their own allocations. Second, the lower GRS applicable in the first couple of years of the Amendment 80 program (i.e., 2008 and 2009) is not likely to be a limiting obstacle even for smaller vessels in the fisheries, particularly when associated with larger vessels in a cooperative. While the high proportion of smaller vessels in cooperatives in the first year is encouraging, it may not indicate that those vessels will continue to be needed to meet cooperative formation thresholds, as intended, in future years when GRS becomes more constraining.

Once the GRS rises, it is conceivable that vessels able to comply with the GRS may be less willing to come to terms with small vessels challenged by the GRS, for fear that they could jeopardize the cooperative's ability to meet the GRS and threaten its compliance. At the extreme, large vessels could form their own cooperative associations offering small vessels a choice between isolation in their own cooperative or the limited access. This could leave those vessels in a position of either fishing in the limited access fishery with a relatively small allocation with challenging GRS requirements, or the potentially poor terms for cooperative membership (which may include very constraining requirements on the operator, to ensure that the cooperative's GRS is not compromised). 49

It is not possible to predict the outcome for single vessel, or small vessel companies, that are not essential for cooperative formation. However, even under the status quo alternative, none of the smaller companies assigned QS (i.e., Arctic Sole Seafoods,

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⁴⁹ There is, of course, a third choice, and one that can be expected and has been observed in other fisheries that allow cooperative formation. Smaller, less efficient vessels drop out of active participation and allow their QS to be harvested "optimally" by the co-op's best performers.

Fishermen's Finest, Cascade Fishing, Jubilee Fisheries, and Ocean Peace) could form a cooperative without participation from at least one of the larger companies (i.e., FCA, U.S. Seafoods, Iquiqui U.S., or the O'Hara Corporation). And only three of the larger companies would need to participate to form a cooperative under the status quo alternative. This suggests that even if cooperative standards are not relaxed, smaller vessel cooperatives are not essential to cooperative formation provided three of the four larger companies can coordinate their operations. These dynamics could encourage greater consolidation within the fleet if smaller companies are no longer desirable as cooperative members due to constraining GRS requirements, and the limited access fishery is not a viable option.

2.3.8.5 Issues raised concerning the current cooperative standards

Arguments advanced for relaxing the cooperative formation standards generally contend that the current standard has reduced the potential for cooperative membership. Some participants contend that by establishing cooperative formation thresholds, some sector members who might otherwise choose to fish in the cooperative fishery have been unable to form the cooperative relationships necessary to meet the cooperative formation thresholds. Some participants contend that in a sector with few participants, thresholds provide little opportunity for sector members unwilling to consent to majority positions. Under these circumstances, the majority (who may be in one or more cooperatives of their own) could effectively force some vessels into the limited access fishery. In some instances, cooperative members could benefit from refusing to accept some prospective members in their cooperatives, either by a late season rollover of unharvested allowable catch from the limited access as was contemplated, but not approved by the Council, under Amendment 90, or by entering vessels into the limited access fishery --effectively fishing off of the allocation of sector members unwelcome in a cooperative or unable to come to terms with other cooperative members.

Whether persons strategize to reach this result, or merely benefit from unexpected circumstances, the outcome could be a windfall for one or more cooperative members arising from their unwillingness (or inability) to come to terms with other sector members. As noted in earlier sections of this analysis, persons whose interests have coalesced and are able to meet the standards to form a cooperative are under no requirement to accept additional members. Perfectly valid reasons may justify not wanting certain members in a cooperative, such as historically poor working relationships, concern about joint liability for violations, or differing harvest strategies that do not comport with other members. Yet, in any case when a cooperative member chooses to enter a vessel in the limited access fishery, one might question whether that choice is simply to assert leverage by encroaching on the allocation of vessels unable to come to terms with the cooperative.

Because the negotiations to form a cooperative are private negotiations, it is not clear that there is any objective way to distinguish between an inability to come to agreement on

⁵⁰ See Draft EA/RIR/IRFA prepared for Amendment 90 at: www.alaskafisheries.noaa.gov/npfmc/analyses/AM90_108.pdf, Section 2.4.2.1

specific terms and behavior by participants who seek to create a competitive advantage by excluding others. This analysis does not attempt to determine the specific factors that led to cooperative formation and limited access fishery participation for 2008 or 2009. Furthermore, it is not appropriate to assume that the cooperative formation patterns observed in the first years of the program (described in Table 2-1) would be observed in future years, so any analysis predicated on the first two years of cooperative may be inappropriate. As an example, three prospective QS permits, currently held by two unique persons, were not applied for, and not issued QS in 2008, but two of those permits were issued QS in 2009. The holders of those permits are participating in the fishery, thereby increasing the number of persons and QS permits who are eligible to form a cooperative. Similarly, some members of BUC in 2009 could prefer to form alternative relationships for 2010, thereby changing negotiation dynamics.

It is conceivable that one or more members of a cooperative could receive benefits from excluding persons from a cooperative. As an example, the cooperative could coordinate efforts, and use fewer vessels to more efficiently harvest the cooperative's quota, thereby allowing vessels owned by cooperative members, but not assigned to the cooperative, to join the limited access fishery. Under an integrated cooperative model, this cooperation is more likely to occur than under a pass through model (i.e., when each member effectively harvests an amount of CQ derived from the QS they have assigned to the cooperative).

In any instance, cooperative members engaged in forcing persons into the limited access fishery would need to be careful to avoid any violation of antitrust law or other regulations governing the constraint of trade. Certain arrangements are likely to be problematic. These generally arise from the opportunity for a cooperative member with multiple vessels to enter a vessel in the limited access fishery and harvest a greater value of fish than if that vessel were fishing in the cooperative. Potentially, the value of the marginally greater revenue derived from that operation could be shared among other cooperative members. Alternatively, a cooperative member could enter a vessel in the limited access fishery, engage in fishing with high PSC rates, effectively closing the fishery to ensure that catch is not harvested in the limited access fishery. At its most egregious, a cooperative could adversely affect the markets of competitors, to provide a market advantage to a cooperative, or force a company into bankruptcy and purchase the liquidated assets below market value. Whether any of these scenarios would be a regulatory or legal violation depends on the circumstances, but each is problematic in that cooperative members are coordinating associations with the purpose of depriving participants in the limited access fishery from the opportunity to participate in cooperative management, and receiving value arising from excluding that person.

More generally, cooperative formation standards that may not be easily achieved may be opposed by persons who believe that in all cases, cooperative fishing should be preferred to the limited access fishery. It is generally believed that fishing exclusive cooperative allocations allows participants to end the race for fish and modify fishing practices to improve fishery returns and reduce PSC. These benefits are argued to outweigh the

possible intended benefits from formation thresholds (including distributional effects), since those benefits are uncertain (i.e., may or may not be realized). It may be argued that penalizing sector members unable to come to terms with others in the sector, forsakes the benefits that arise from a cooperative allocation, for benefits that are less certain.

2.4 Potential Effects of the Alternatives

Throughout this section, the effects of Alternatives 2 through 6 are considered generally against the status quo. Because of the lack of quantitative data, and the nature of this action (i.e., modifying a cooperative formation standard, encouraging cooperative formation, and minimizing potentially adverse effects), it is not often possible to provide specific detail on how one alternative, or a specific suboption would differ substantially from another alternative in achieving the goals of encouraging greater cooperative participation. Where possible, the description provides a discussion of the continuum of potential effects among Alternatives 2 through 6 and among the various suboptions under each alternative. The GRS suboption is addressed separately in this analysis.

Generally, this analysis assumes that negotiations would become more transparent with the lowering of cooperative formation thresholds. Specifically, the greater the number of outside opportunities to form cooperatives, the more likely that persons negotiating cooperative membership will receive the actual value of their operations and assets from a cooperative arrangement. For example, a person who is instrumental to cooperative formation may be able to leverage that position with the cooperative to receive greater value for their participation in the cooperative than reflected by the value of their QS or assets under other fishing conditions, because the other members would be willing to "pay" for that person's participation, so they are not deprived of the benefits brought by cooperative membership that is ensured by the threshold member. On the other hand, if the cooperative can form with or without a person, the person will have no special leverage with respect to other members in negotiations. Thresholds that allow more cooperatives to form limit the extent to which leverage may be asserted by persons who are non-members prior to the threshold being met or by persons who are members after that threshold is met. In addition, creating a limited access fishery as the outside option likely increases any leverage arising from constraining cooperative thresholds, since the opportunity in the limited access fishery is likely to be substantially less appealing than the opportunity in a cooperative. In any case, persons in a position to deprive others of the benefits of cooperative membership through more stringent cooperative formation standards will have added leverage, to the extent that the limited access opportunity poses challenges to the member that is excluded and the cooperative is able to benefit. This added leverage rises with competition in the limited access fishery, and will also rise for some sector members as the GRS increases and its effects become more constraining on their operations.

2.4.1 Alternative 1: Status quo

The status quo alternative is the most restrictive alternative considered in terms of the number of QS holders, QS permits, and the maximum number of cooperatives that can Because a majority of participants have chosen to participate in the one cooperative that has formed, this alternative would not change the existing cooperative standards. Some industry participants have argued that this alternative may have the least potential risk of creating conditions that would exclude smaller QS holders. Some industry participants have suggested that there is a risk to any change to the existing cooperative formation standards, because such a change would diminish the negotiating leverage of QS holders who may be necessary to meet the threshold requirements under more stringent cooperative formation standards. The assertion is that this potentially adverse effect may be more likely for participants owning vessels that are more likely to be constrained by the GRS as the retention rate increases. As an example, under the existing cooperative formation standard, a maximum of three cooperatives can form, and a person who is necessary for the cooperative to meet these standards may have greater negotiating leverage than could exist under alternatives where there are a greater number of potential persons who are available to allow a cooperative to form.

Because the cooperative formation standard is relatively high, and there is a more limited number of QS permits or QS holders that are available to meet the third QS holder or ninth QS permit requirements, those participants may be better able to negotiate favorable terms, even if those participants have limited QS holdings or lower retention rates relative to other cooperative members. Under the most extreme example, as indicated in Table 2-1 under Alternative 4, suboption 4, several QS holders could form cooperatives independent of other QS holders and the negotiating leverage of QS holders who are unable to form cooperatives independently may be diminished relative to those QS holders able to independently form a cooperative.

However, it is not clear that changing the cooperative standards would necessarily disadvantage participants who are more constrained by the GRS, than retaining the status quo. Table 2-2 shows that several multiple vessel owning companies could form a cooperative and exclude smaller QS holders, or single vessel owners under the status quo alternative. The single cooperative that has formed in 2008 and 2009, contains several more members than are strictly necessary to meet the cooperative formation standards. If the cooperative formation standards are relaxed, it is not clear that this would adversely affect the negotiating position of participants who have chosen to participate under the current cooperative structure. In fact, it may provide additional negotiating leverage to smaller QS holders or single vessel owners, if they have multiple options available to them. Other dynamics may exist between harvesters that favor a larger cooperative structure, but it is not clear how changing the cooperative formation standards would adversely affect those dynamics. Generally, under all alternatives, including the status quo, one would expect QS holders who hold only one QS permit (i.e., own one vessel) to have diminished negotiating leverage, relative to QS holders with multiple permits,

because they are not able to contribute as many QS permits to help meet the minimum QS permit formation standard.

Potential economic effects of this alternative relative to other alternatives are not quantifiable, given the limited data available. Other alternatives may provide additional opportunities for vessel operators to form cooperatives, and if those cooperatives are able to operate with greater efficiency (e.g., profitability), then this alternative may provide relatively fewer benefits to the fishery participants and the nation. However, it is difficult to determine whether this alternative constrains fishery participants from achieving these goals. Currently, it is possible that all QS holders could join a single cooperative and realize some potential benefits of cooperative management. The fact that this has not occurred, despite apparent efforts by the various parties, suggests that other factors such as historical working relationships may be affecting the ability of the parties to reach agreement. Maintaining the status quo alternative could result in the same relative split in TAC between the cooperative and the limited access fishery unless conditions in the fishery change to encourage greater cooperative membership, a sufficient number of participants leave the existing cooperative and choose to form a cooperative with existing limited access fishery members, or the current limited access fishery participants form their own cooperative.

2.4.2 Alternative 2: Modifying the number of owners required to form a cooperative

Depending on the degree of any ownership threshold, sector members could be faced with required negotiation with several other owners in the fishery, or forming a single company cooperative and effectively receiving an IFQ. Allowing a single company to form a cooperative would allow any sector member to form his/her own cooperative and receive an exclusive harvest privilege that could be fished or transferred to other sector members. A single person threshold does not compel the coordination, compromise, and negotiations which the Council identified as goals for Amendment 80. A single person threshold would have the advantage of eliminating the potential adverse consequences of managing and fishing of a race for fish in the limited access fishery. Allowing a single company cooperative, however, could limit the formation of associations among participants who might wish to form a cooperative relationship with other owners, because they may be less economically efficient or may be challenged by the GRS, without the benefit of the larger vessels or larger QS allocations that would be brought to the cooperative by other sector members. However, it is not clear that this potential is substantially different than the status quo alternative, because under the status quo several large companies with multiple permits could form a cooperative and exclude smaller vessels. Permitting 'single member cooperatives' may economically disadvantage, and functionally discourage, development of multiple-member co-ops, because the formation of the latter cooperative structure will impose "transactions costs" that the former, by definition, will avoid.

A potential advantage to lowering the number of owners required to form a cooperative, including providing a single company cooperative, is that owners who may otherwise be

undesirable as cooperative partners would be able to receive a CQ allocation that could be fished or traded to other cooperatives. These unwanted potential partners could be entities, such as companies with poor working relationships with other members, or small vessels that pose GRS challenges and risks for other cooperative members. By allowing single company cooperatives, those sector members would only assume joint liability for the actions of cooperative members with whom they truly desire business relationships, rather than sector members who must be taken on, simply to meet the threshold. One could argue that lower ownership standards could encourage companies with strong working relationships to operate more collaboratively under an integrated cooperative model only with those members with whom they have the best working relationships. At the same time, those members who do not have collaborative working relationships with other members would be able to establish a cooperative, thereby increasing the potential benefits derived from an exclusive harvest privilege under cooperative management. ⁵¹

Overall Alternative 2 would not be expected to provide as many potential options to form a cooperative as Alternative 3, Alternative 4, Alternative 6, or Alternative 5, suboptions 2 and 3 because under both suboptions of Alternative 2, not more than three cooperatives could form. Although reducing the number of owners may provide greater opportunities for larger QS holders with multiple permits, because they would need to negotiate with only one other party, or no other party, it would not necessarily provide more total options for cooperative formation, particularly for single vessel owners. If potential additional economic benefits are derived from flexibility in cooperative formation, then Alternative 2 yields smaller potential benefits than Alternatives 3, 4, 5, or 6.

2.4.3 Alternative 3 Modifying the number of QS permits required to form a cooperative

Lowering the number of QS permits that are required to form a cooperative could provide additional cooperative opportunities for large and small QS holders. On the other hand, reducing the number of QS permits (vessels or LLP/QS licenses) required to form a cooperative could reduce the negotiating leverage of smaller vessel owners if those vessels are less necessary to meet the cooperative formation requirements. In the extreme, if single small vessel owners are not perceived as necessary to form a cooperative, and it is perceived that these vessels cannot meet GRS requirements and economically participate in the BSAI, the negotiating leverage of those smaller vessels will be very limited. If all vessel operative are able to effectively operate as though they held IFQ, small entities could be left to fail, as no cooperation, coordination, or negotiation would be required. Whether this effect occurs is likely to depend on the circumstances and actions of sector members, in part, because it is not certain that small vessels will be instrumental in meeting the existing formation standard.

⁵¹ It could be argued that issuing 'exclusive harvest privileges' and providing in regulation for creation of a 'cooperative' with only a single member, rewards an operator whose historical behavior and practices have resulted in it being regarded by all other members of the fleet as unacceptable for partnering with in a co-op. This would seem to be a perverse result.

Modifying cooperative formation standards so that fewer QS permits are required to form a cooperative could provide additional opportunities for cooperative formation. Easing the requirements would allow more cooperatives to form, each structured around similar fisheries or operations. It is difficult to predict the relative value of lower cooperative formation thresholds to companies owning a single or few vessels. One would expect that if more cooperatives can be formed, then owners of single vessels or few vessels, whether large or small, would have additional opportunities to negotiate. Under certain conditions, it could be possible that more than one owner of multiple vessels could be attempting to form a cooperative and these vessel owners could be actively competing to attract a single vessel owner to join. Under that scenario, the lower cooperative formation standards could improve the negotiating leverage of the single vessel owners because they may have additional opportunities to provide the necessary vessel or number of owners required. Without knowing the specific dynamics of the negotiating positions of the parties, which will vary from year to year, it is not possible to definitively state how modifying the number of QS permits would affect negotiating leverage.

This alternative would likely provide limited opportunities for additional cooperative formation for multiple QS holders, because the QS holder limit of three unique persons would still be constraining. This alternative could provide some limited additional options for smaller vessels to form cooperatives, but only to the extent that there were at least three unique QS holders available. Currently, there are only nine QS holders, or 10 if the one remaining potentially eligible QS holder chose to apply for QS (see Table 2-2). Therefore, reducing the number of QS permits required to form a cooperative to three, under suboption 2, could result in a theoretical maximum of nine cooperatives. However, if QS holders chose not to subdivide their QS permits among cooperatives, it is likely that even under suboption 2 a maximum of only three cooperatives could form. It is not clear that this alternative would offer substantially greater cooperative formation opportunities, or have substantially different economic implications than the status quo alternative.

2.4.4 Alternative 4 Modifying the number of QS holders and QS permits required to form a cooperative

Alternative 4 is likely to provide the greatest opportunities for both multiple vessel and single vessel owners to form a cooperative. Under Suboption 2 and Suboption 4, three single vessel owners could choose to form a cooperative, an option not available under any of the other alternatives. Similarly, under suboption 4 all but one of the multiple vessel owners could choose to form a single company cooperative, effectively operating as though they were IFQ holders, independent of other members. To the extent multiple cooperative formation opportunities provide more transparent interactions, minimize the ability to exclude QS holders from cooperative formation, and provide the greatest opportunity to establish cooperatives, this alternative, and Alternative 6, may best achieve the goals described in the Council's purpose and need statement.

Although this alternative, in particular suboption 4 could allow multiple QS holders to form cooperatives, it is not clear that this would specifically disadvantage single vessel owners. As an example, even if all of the current multiple vessel owners that could chose

to form single company cooperatives did so under suboption 4, the most liberal cooperative formation standard the Council is considering, and assuming the current ownership status of QS holders does not change from that reflected in Table 2-2, five QS owners and six QS permits remain. Those remaining QS holders could choose to form two distinct cooperatives comprised of three members. If a similar scenario existed under the status quo alternative (i.e., all QS holders holding a minimum of three QS permits) chose to form a cooperative, the five remaining QS holders would be unable to form a cooperative because they would fail to meet the requirement for a minimum of nine QS permits, and would be forced to fish in the limited access fishery.

The Council's preferred alternative under Alternative 4 of two unique persons and seven QS permits would provide an opportunity for the participants in the limited access fishery to form a cooperative without requiring changes in the membership of the existing cooperative. The Council chose an alternative that would provide some additional flexibility to the Amendment 80 sector to form cooperatives, without requiring drastic changes from the status quo. The Council noted its preferred alternative would require more than one company to coordinate operations to receive an exclusive annual harvest allocation. The Council noted that maintaining a multi-company cooperative structure would extend the Council's overall goals of enhancing coordination among a variety of different industry participants.

Section 2.3.8 of the analysis notes that the alternatives considered, including the Council's preferred alternative is consistent with the overall goals of the Amendment 80 Program. The Council noted that modifying the cooperative standards originally selected under Amendment 80 to reflect the changing negotiating positions of various industry participants was responsive to the best available information on current fishery conditions. Public input during the Council's consideration of the proposed action generally supported the reduced cooperative formation standard as a mechanism to provide additional opportunities for the current Amendment limited access fishery participants to establish a cooperative.

2.4.5 Alternative 5 Establishing a minimum QS holding threshold for cooperative formation

Currently, a minimum amount of the total QS pool is not required to be assigned for cooperative formation. The current standard of nine QS permits does not specify that a certain percentage of the QS pool must be assigned to those permits. Depending on the choice of thresholds, however, sector members could be treated differently under such a requirement. In February 2009, the Council clarified that this standard would not replace the existing requirements for a minimum number of three unique QS holders and nine QS permits, but would be an alternative mechanism for cooperative formation to the status quo. Assuming that the current QS ownership structure is retained, only one cooperative could independently form a cooperative (see Table 2-1).

Although this alternative does not offer the potential for as many cooperatives to form (i.e., a maximum of only five cooperatives when compared to nine cooperatives under

other alternatives and suboptions) it could offer additional flexibility over the status quo alternative by allowing QS holders to form cooperatives around specific species or operational types, without having to meet a minimum QS permit or QS holder standpoint. To that extent, it may offer additional flexibility and opportunities when compared to the status quo. It should be noted, that FCA, the largest QS holder, and currently a participant in the limited access fishery would be able to form a cooperative under all of the suboptions. If FCA did establish a single company cooperative, then it is likely that the remaining participants in the limited access fishery would have a strong incentive to join a cooperative because a limited amount of QS, and therefore ITAC, would remain in the limited access fishery.

Under the suboption where 30 percent of the QS must be assigned to a cooperative in order for it to form, no more than one person could qualify to form a cooperative as a single company under that suboption, effectively operating as though that person held IFQ. The existing limitations that no person may hold more than 30 percent of the Amendment 80 QS pool unless that person held the catch history of qualifying vessels prior to final action by the Council in June 2006 (50 CFR 679.92(a)), and the prohibition on the severability of QS from the permit to which it is assigned (50 CFR 679.90(a)) effectively limits all but one company from being able to hold 30 percent or more of the QS pool. However, it would still be possible for more than one company to combine their QS holdings in order to meet the minimum QS holding standards of 30%, 25%, or 20% of the Amendment 80 QS pool.

2.4.6 Alternative 6 Require a cooperative to accept any otherwise qualified member subject to the same terms and conditions applicable to other members.

Because all eligible participants in the Amendment 80 sector could join a cooperative under this alternative, a greater proportion of the fleet could come under cooperative management under this alternative relative to the status quo and Alternatives 2 through 5 because participants would not be able to join any cooperative that does form, and those cooperative members would have more limited incentives, and ability, to purposefully exclude a specific member. The principal concerns raised about Alternative 6 are that: (1) this provision was previously considered in the Amendment 80 proposed rule and rejected; (2) this provision is not necessary to ensure that cooperatives form; (3) joint and several liability provisions could create risks or additional costs for cooperative members if a person with a history of enforcement violations becomes a member of a cooperative; and (4) allowing all members into a cooperative could disrupt internal negotiating dynamics within the cooperative.

Section 2.3.6 notes that this alternative was considered in the Amendment 80 proposed rule, but withdrawn from the final rule based on the lack of clear guidance from the Council to include this provision, and the response of industry to its proposed inclusion. NMFS proposed this provision in the Amendment 80 proposed rule. The Council did not provide specific input during the Amendment 80 proposed rule comment period. The Council never specifically considered this alternative during the development of the

Amendment 80 Program. Based on public comment, NMFS removed this proposed provision.

The Council may consider and recommend changes to the Amendment 80 Program in response to new information or new policy choices. The fact that this provision was not included in the Amendment 80 final rule does not preclude the Council from considering this alternative at this time.

Public comments concerning this provision noted that under the existing cooperative standards, up to three cooperatives could form and the multiple arrangements that are possible do not require that a cooperative accept all otherwise eligible members. This argument is appropriate if there are practical, rather than theoretical, opportunities for a participant to join a cooperative, and the dynamics of cooperative management do not create incentives for participants to exclude a specific member. Assuming the current structure of the BUC cooperative and limited access fisheries are likely to continue, up to two cooperatives could form. Although it is not certain that the BUC membership will stay the same, past experience with the AFA, the Central GOA Rockfish Program, and to some extent crab cooperatives, suggests that once cooperatives have formed the parties do not frequently modify the cooperative's membership. That pattern may occur in the Amendment 80 sector as well. Industry participants have not indicated that substantial changes in BUC membership are anticipated. Therefore, it is reasonable to assume that practically, at least two cooperatives could form—BUC, and all, or all but one, of the current members of the limited access fishery.

However, there may be incentives for BUC members, or current limited access members to frustrate the formation of an additional cooperative. As noted in Section 2.3.8.5, owners of multiple vessels/QS permits can assign those permits to both the limited access and a cooperative fishery. One participant has been a member of BUC and the limited access fishery in 2008, 2009, and 2010. Presumably, that member continues to operate in this manner because the vessel assigned to the limited access fishery can benefit from fishing competitively in the limited access fishery and derive a greater value than would likely result from being assigned to a cooperative. If that is the case, that member would be likely to discourage the BUC cooperative from accepting members from the limited access fishery. Similarly, other participants in the limited access fishery with relatively small QS holdings may prefer to compete in the limited access fishery, and would discourage cooperative formation, if the cooperative option is likely to yield less value than competitive fishing.

Several industry participants have raised concerns that joint and several liability could pose substantial risks to cooperative members if a member had to be accepted who had a poor enforcement record. Currently, the AFA and Central GOA Rockfish Program address this issue by clearly establishing the roles and responsibilities of the various parties and the managerial authority of the cooperative managers to address inseason management concerns. For example, under the AFA intercooperative contract, the cooperative manager has the ability to enforce certain provisions on vessel operators to

ensure that they comply with salmon bycatch agreements. Central GOA Rockfish managers can order vessels to cease fishing if they exceed the allocations or halibut PSC rates that have been specified in the cooperative arrangements that all members sign. In both of these programs, these risks have been addressed by specifying these terms and conditions in civil contracts before fishing.

Cooperative managers in the AFA and Central GOA Rockfish Program have not indicated that indemnification clauses have been exercised or that cooperative managers have needed to take actions that have resulted in limitations on vessel operations.⁵² This experience suggests that vessel operators have strong incentives to adhere to the contractual obligations to ensure continued participation in a cooperative and avoid potential penalties. Cooperative contracts in the Central GOA Rockfish fishery do contain provisions that allow the cooperative to establish escrow accounts to fund any potential violations, but those accounts have not been used. In addition, the Central GOA Rockfish cooperative contracts contain provisions that if a party is subject to an enforcement action that may adversely affect the cooperative, that member will be responsible to any penalties, fees, and costs borne by the cooperative. It is not clear if the conditions in the Amendment 80 sector are as collaborative or consensual as those that may exist in the AFA or the Central GOA Rockfish Program. The fact that industry participants have expressed difficulties in reaching negotiations to establish a cooperative over several years suggests that relationships in the Amendment 80 Program are less collaborative than in these other LAPPs.

If the parties were concerned that violations were more likely, escrow provisions linked to the potential risk of violation or other measures could be incorporated into the cooperative contracts. Some industry participants have indicated that the use of escrow accounts could adversely affect smaller QS holders with more limited assets. Cooperative contracts could address these concerns by linking these requirements for escrow to the amount of QS holdings or asset values of the members to address these concerns. The negotiation of indemnification clauses or other cooperative enforcement arrangements could become more costly and burdensome when the cooperative membership is not purely voluntary. Contract negotiation is likely to be easiest if the members are seeking to voluntarily coordinate. Under those conditions, prospective members may not require extensive collateral for indemnification clauses, or the nature of the necessary collateral for indemnification can be relatively easily determined and set according the needs of specific participants. However, if any member can join cooperative, cooperative members could be required to establish more complex and costly procedures for establishing collateral that would need to account for any potential future member and a broad suite of potential violations. In a worst case scenario, the costs of setting aside collateral could be a substantial barrier for smaller companies. Under Alternative 6, the terms and conditions that are applicable to one member would need to extend to all members, preventing the ability of tailoring specific collateral requirements to specific members. The extent to which the complexity and costs of

⁵² John Gruver and Julie Bonney, November 17, 2009, pers. comm..

establishing indemnification clauses may hinder cooperative formation or membership in a cooperative cannot be predicted.

Allowing all potentially eligible members into a cooperative could potentially shift the internal dynamics within the cooperative. Cooperative contracts established among members who have already established good business relationships may be easier to negotiate and could require less oversight. If a cooperative contract is established and all members must be accepted, internal monitoring provisions related to catch reporting and other terms could become more stringent, and more costly for each member. Cooperative contracts would need to be developed to address the range of the potential issues that may result from all participants becoming a member of a cooperative. This task could require substantially more initial effort to establish. Experience with the AFA inshore cooperative and Central GOA Rockfish Program suggests that cooperatives can develop well-designed contracts addressing potential contingencies successfully. cooperative contracts would need to be developed to accept all potential members, one would expect that common terms and conditions related to monitoring, enforcement, and performance of the contract would be similar between potential Amendment 80 cooperatives if more than one cooperative formed.

An additional factor that cooperative members would need to consider is how to ensure that cooperative contracts are structured so that all members are, in fact, subject to the same terms and conditions. For example, a cooperative contract could contain specific clauses that may, in practice, affect only one of its members. This concern is not easily addressed through a regulatory mechanism. NMFS does not have an extensive review process established under the AFA or the Central GOA Rockfish Program to determine if the contracts effectively offer the same terms and conditions to all members. Any such a review would be complicated and any evaluation could be subject to challenge. The potential parties to a contract are best situated to assess the appropriateness of a potential contract provision through civil court if they disagree on the application of specific contract terms. It is not possible to assess the risk that the terms in a cooperative contract would be subject to challenge by a potential member. As with all cooperative contracts, a violation of contract terms is subject to civil enforcement. NMFS has not proposed that it would be required to enforce the application of specific contract terms and conditions. In other programs (e.g., BSAI Crab Rationalization Program Arbitration System), NMFS has relied on parties that are required to include specific contract terms to submit an affidavit testifying that the appropriate term is included. NMFS anticipates that its role under this alternative would be similar. Parties who believe that the same terms and conditions are not offered and that the affidavit provided in false. Presumably, NMFS could investigate any such claim and take enforcement action if appropriate. Based on past experience with other LAPPs, NMFS would not anticipate that claims of fraudulent statements or failure to include a contract term would be common.

Although not exhaustive, regulations establishing civil enforcement of civil contracts are commonly used in many North Pacific LAPPs such as the AFA (e.g., the rolling hotspot intercooperative agreements), BSAI crab rationalization program (e.g., Arbitration

System), and the Central GOA Rockfish Program (Cooperative standards). Unless the conditions in the Amendment 80 sector are dramatically different than conditions in other potentially contentious contractual relationships (e.g., BSAI crab Arbitration System), it is not clear that civil violations would be any more likely in the Amendment 80 sector than in other fisheries.

Cooperatives could establish terms and conditions that would limit membership to only members who meet certain minimum standards not explicitly required in regulation. For example, cooperatives could establish requirements that would limit membership to vessels or companies that met minimum GRS rates for the preceding year. Under such a scenario, a cooperative could effectively limit the universe of potentially eligible vessels. Under the Alternative 6 cooperative formation standard, vessels ineligible to join one cooperative could not join another cooperative unless the minimum standard of three unique persons and nine QS permits was met. Conceivably, a cooperative could establish terms and conditions that would effectively exclude vessels with low GRS rates. If a cooperative excluded members who did not meet minimum GRS rates in the preceding year, and no other cooperative option was available, then those operators would be forced to place their vessels in the limited access fishery. If the Council selected the QS assignment suboption, then any such vessel operators would have to assign other vessels, even those who may be eligible for cooperative membership, to the limited access fishery. The Council could select a lower threshold for cooperative formation than under Alternative 6 to provide additional opportunities for cooperatives to form. This approach would be helpful if some members are unable to meet the terms and conditions for one cooperative, and cannot meet the three unique person and nine QS permit cooperative formation standard under Alternative 6.

Alternative 6 would not alter the existing dynamics required to form a cooperative, but could require substantial changes to the current BUC cooperative contract, and would need to be considered by any future cooperative, to ensure that any eligible new member could be incorporated. Because any member could join a cooperative under Alternative 6, members with limited QS holdings (i.e., single vessel companies) may find this alternative attractive because it allows them to participate in a cooperative even if they are not necessary to meet the minimum number of unique persons and QS permits required under other alternative.

2.4.7 GRS Suboption: Modifying GRS to allow calculation based on retention among cooperatives

As proposed by the Council, this suboption may facilitate GRS compliance among cooperatives, however, it does not specifically change cooperative formation standards, because it cannot apply until after a cooperative has formed. Initially, this suboption was considered as a separate alternative. After reviewing staff suggestions during the February 2009 initial review, the Council recommended that this suboption may be applicable under all alternatives, or specific alternatives, as the Council chooses.

NMFS assumes that this alternative would be applied by calculating the GRS by first summing the total retention of all cooperatives against the total catch of all cooperatives. If that aggregated catch is greater than the GRS for a given year, all cooperatives would meet the GRS. If the aggregate retention for all cooperatives is lower than the GRS for that year, then NMFS would calculate the GRS for each cooperative independently and take the appropriate enforcement action only against those cooperatives that failed to meet the GRS. As an example, assume that the GRS rate for the year is 80 percent. Then assume: (1) Cooperative A catches 100 pounds and retains 60 pounds (60% retention rate); (2) Cooperative B catches 200 pounds and retains 180 pounds (90%); and (3) Cooperative C catches 300 pounds and retains 250 pounds (83%). Cooperative A would not meet the 80 percent GRS requirement independently, but the sum of the total catch and total retained catch of all three cooperatives (490 pounds/600 pounds = 81.66% retention rate) does exceed the GRS requirement and therefore all cooperatives would meet the standard. If the case were different, and Cooperative A only retained 30 pounds of the 100 pounds it caught, then the total/retained for all three cooperatives would be less than the 80 percent GRS requirement (460 pounds/600 pounds = 76.7% retention rate). In that case, Cooperative A would not meet the standard, but Cooperatives B and C would because their retention rates (90% and 83%, respectively) exceed the GRS requirement. NMFS tracks retention by each cooperative independently, and summing the total catch and total retention of multiple cooperatives is a relatively simple task.

Conceivably, a cooperative may not meet the GRS independently, but could meet the GRS if aggregated with other cooperative, and could face the potential risk that another cooperative fails to retain enough product to ensure that cooperative would meet an aggregate GRS. Although unlikely, a cooperative with the ability to ensure that other cooperatives meet an aggregate GRS could exert pressure on those cooperatives for compensation or other favorable conditions in order to maintain a high retention rate, particularly if that cooperative is already guaranteed to meet the GRS for that year. This scenario appears unlikely because all cooperatives are likely to benefit from an aggregate standard, and exacting compensation from other cooperatives for retaining a certain retention rate would not be likely to serve the long-term interests of a cooperative.

During the February 2009 initial review, the Council requested that NOAA Office of Law Enforcement (OLE) and NOAA General Counsel for Enforcement and Litigation (GCEL) review this alternative and provide additional comments. Although the actual computation of the GRS under this suboption is not particularly difficult, some additional effort and cost likely would be required to enforce this suboption relative to the current GRS enforcement. In order to enforce any violation on a specific cooperative, NOAA would have to establish that the overall retention of all of the cooperatives was under the limit for that year, as well as for each cooperative. If there are multiple cooperatives, then NOAA OLE and GCEL would have to verify the retention rate for all cooperatives. This could entail an extensive review of observer data, catch records, interviews, or other information, and the need for a potentially large number of observers as witnesses. The additional work required by NOAA OLE and GCEL would vary depending on the size of the cooperatives. As an example, under the status quo enforcement of the GRS, if the

existing cooperative failed to meet the GRS, NOAA OLE and GCEL may need to verify catch and other data on each of the 15 vessels actively fishing in the cooperative. If an additional cooperative formed and was comprised of the current members of the limited access fishery, NOAA OLE and GCEL may need to investigate data from the 7 vessels active in that fishery as well. The potential cost and time that may be required is not possible to predict with certainty because it would vary with the sizes of the cooperatives, and the specific condition of the potential violation, which are unknown.

GRS Suboption under Alternative 1: Purpose and Need

As the GRS increases, participants may have increased difficulties meeting the GRS requirements. Allowing cooperatives to aggregate the GRS among all cooperatives could provide additional assurance to cooperatives that a minimum amount of retention is met without requiring specific vessel operators to form a cooperative with other vessel owners who may not share common goals or operating procedures. An aggregate cooperative GRS would continue to further the goals of maximizing groundfish retention, while providing some additional flexibility for vessel owners.

The Council considered NMFS and NOAA OLE comments during final action in February 2010, and chose to recommend the proposed modification to GRS compliance determination. At final action in February 2010, NMFS reiterated its concerns about the potential costs and complexity of enforcing the GRS across cooperatives. At its April 2010 meeting, the North Pacific Fishery Management Council (Council) requested NMFS report to the Council on the status of monitoring, enforcing, and prosecuting the GRS program. The Council request was based, in part, on the concerns raised by NMFS during final action, and general concerns expressed by the Amendment 80 sector about the enforcement of the GRS. In April 2010, the Council requested that NMFS review the enforcement and prosecution concerns raised during the development of the GRS Program, Amendments 80 and 93 to the Fishery Management Plan for Groundfish of the Bering Sea and Aleutian Islands Area (FMP), any new concerns about monitoring and enforcing the GRS program that have been identified by the agency or industry participants, and potential concepts for refinement of the GRS Program to address these concerns.

In June 2010, NMFS provided the Council a preliminary assessment of the GRS program responsive to the Council's April 2010 request. The report reiterates to the Council NMFS's concern about expanding the scope of the GRS Program to multiple cooperatives formed by the Amendment 80 sector as proposed by the Council under proposed Amendment 93 to the FMP. Two key concerns were raised in NMFS's June 2010 report were differences in calculating retention under the GRS Program relative to the analysis before the Council when it recommended Amendments 79 and 80, and the difficulty of effectively enforcing the GRS.

The June 2010 report noted that since the GRS program was implemented, the retention

rate of groundfish by the Amendment 80 fleet has increased from 77 percent in 2008 to 81 percent in 2009 based on the regulatory methodology for calculating groundfish retention. However, the Amendment 80 sector has expressed concern that the data used by the Council to establish the GRS schedule, differ from the data used by NMFS to calculate vessel or cooperative specific retention percentages and regulate compliance with the annual groundfish retention standards. BUC reported in its 2009 annual report to the Council that the GRS calculation specified in regulations results in a lower retention percentage than the methodology used in the Amendment 79 analysis to establish the standards. In the June 2010 report, NMFS confirms that the calculation method of the GRS specified in regulation results in a consistently lower retention rate. For example, in 2008, this difference was 14 percent. The reason for this difference is not clear, but likely reflects a mixture of factors that include the GRS Program's use of scale weights in measurement of total catch, reliance on observer sampling to develop estimates of total groundfish catch, and use of standard product recovery rates that may differ from vessel specific recovery rates. NMFS also suggests that a difference exists between the apparent improvements in retention by vessels in the Amendment 80 sector versus meeting regulatory standards established for the GRS Program retention percentage. Nonetheless, as retention requirements are increased through 2011, BUC is concerned that the effect of this difference is to require a level of retention that will not be possible to achieve by many vessels, and perhaps not by the BUC as a whole.

The June 2010 report described a suite of enforcement concerns about the ability to effectively prosecute a violation of the GRS. The concerns raised in the June 2010 report are consistent with concerns raised when the GRS Program was approved by NMFS as Amendment 79. At that time, NOAA General Counsel raised concerns about the likely difficulty in prosecuting vessel specific violations of the Program. These concerns primarily focused on the Program's reliance on an annual groundfish retention percentage based in part on data collected by numerous observers deployed on a vessel over the course of a year and whether these observers would be available in future years to support the prosecution process. These concerns are aggravated under Amendments 80 and 93 because the number of observers necessary to support an enforcement case and associated prosecution increases significantly from a single vessel scenario to a multiple vessel cooperative under Amendment 80 and a multi cooperative GRS compliance standard under this proposed Amendment 93.

The June 2010 report concluded that limited experience suggests that the costs to NOAA of developing a GRS compliance case are high and will be even higher if GRS compliance cases are pursued at the cooperative level. During the June 2010 meeting, Amendment 80 sector representatives indicated that compliance with the GRS in 2010 and 2011 may not be feasible under the current method of calculation.

In June 2010, the Council recommended two actions on the GRS based on the concerns raised by NMFS and industry testimony. First, the Council recommended that NMFS initiate an emergency rule to suspend the application of the GRS. The statutory provisions for emergency rules are described in section 305(c)(1) of the MSA. The

Council expressed its desire that this emergency rule be effective for 2010 and 2011. NMFS advised the Council that it would review the Council's request. If the Secretary approves the emergency rule, the rule would suspend application of the GRS during the years that the emergency rule is in effect. Second, the Council recommended initiating an analysis that would review potential permanent changes to the GRS, including removing the specific regulatory requirements to meet a GRS. NMFS reviewed the concerns raised by NMFS in the June 2010 report, and the actions taken by the Council when considering the approvability of this proposed provision. On December 15, 2010, NMFS published an emergency rule exempting Amendment 80 vessels and cooperatives from GRS regulations effective during 2010 and 2011 (75 FR 78172). An extension of this emergency action was published and will be effective until December 17, 2011 (76 FR 31881). A proposed rule to remove the GRS program from regulation and replace it with an annual groundfish retention report is under development. Even though an annual groundfish retention report is being developed to replace the GRS program, an incentive to join a cooperative still exists. The Council will continue to explore alternatives to the GRS program. Data from cooperative participation will be collected through the annual groundfish retention report and used for future consideration in rulemaking.

2.4.8 QS Assignment Suboption: Requiring a QS holder to assign all QS permits to cooperative(s) or the limited access fishery.

This suboption would be applicable under all alternatives. The Council recommended this alternative to ensure that QS holders are required to choose either to assign all QS permits, vessels and LLP licenses associated with that QS permit to one or more cooperatives, or to the limited access fishery to minimize the potential for vessel operators to purposefully exclude members from a cooperative. A similar provision was included in the proposed rule for Amendment 80 to encourage cooperative formation. This provision would have required that a QS holder assign all QS permits, associated vessels, and LLP licenses to a cooperative, or the limited access fishery (see proposed rule text at 72 FR 30126). A similar provision has been included in other North Pacific LAPPs (e.g., BSAI Crab Rationalization). This provision was removed from the Amendment 80 final rule based on industry comments that such a provision was not explicitly recommended by the Council as was the case in other LAPPs, and that this provision would frustrate cooperative formation and the ability of companies to use vessels in multiple cooperatives.⁵³ The comment on the Amendment 80 proposed rule clearly noted that "some companies may need to have the flexibility to split their vessels, LLP licenses, and QS permits among more than one cooperative. In order to maximize the possibility that all vessels find like-minded operations with which to form up to three effective cooperatives, the "all in" rule should be eliminated to allow an Amendment 80 vessel owner the opportunity to determine how to best structure his or her operation to maximize the benefits that may be derived from cooperative management."54 Other industry comments noted that "multi-vessel companies may have good reasons for assigning different vessels to different cooperatives, based on vessel configuration or

⁵³ See response to comment 26 (72 FR 52690).

⁵⁴ See comment 26 (72 FR 52690).

other concerns."⁵⁵ None of the public comments on the Amendment 80 proposed rule specifically recommended that multi-vessel QS holders should have the explicit option to assign vessels to both the limited access fishery and a cooperative. The commenters noted that they wished to have the flexibility to assign their vessels and QS to more than one cooperative. However, the Amendment 80 final rule provided the broadest possible choices to multi-vessel QS holders by allowing them to join a cooperative or the limited access fishery, not merely multiple cooperatives. The proposed suboption would limit the ability for a QS holder to join one or more cooperatives and the limited access fishery consistent with the comments made on the proposed rule.

The Council chose to recommend this provision be reconsidered based on recent fishing practices observed in the limited access fishery that may disadvantage limited access fishery participants and create incentives to discourage cooperative formation. For the past three years, one QS holder has assigned vessels and QS permits to both the cooperative and the limited access fishery (see Table 2-2). Presumably, because this situation has occurred consistently, the QS holder has realized a greater benefit by splitting vessels among fisheries than by assigning all vessels to a cooperative. Given the relatively limited catch history of the vessel (see Table 2-2) and the size of the limited access fishery, most likely the Ocean Alaska is able to harvest more than the amount it would receive if fishing under a cooperative. This situation creates a strong incentive for this QS holder to work to exclude the other limited access fishery participants from the cooperative. Requiring a QS holder to participate in either one or more cooperatives or the limited access fishery would remove this incentive. To administer this provision, NMFS would assume that the current method for defining a unique person (i.e., not linked through a 10 percent or greater ownership or control) would apply when defining a QS holder.

Under this suboption multi-vessel QS holders would have to meet the requirements to join one or more cooperatives with all of their vessels or be forced to participate in the limited access fishery. This could limit the ability of multi-vessel QS holders to obtain some of the advantages of cooperative management if they cannot reach agreement. Potentially, this suboption could result in more vessels participating in the limited access fishery. If the cooperative formation standard was lessened from the status quo (or Alternative 6) this could improve the likelihood that more vessels participate in the cooperative.

Secretarial Review Draft – RIR/EA/FRFA, October 2011 BSAI Amendment 93, Modifying Amendment 80 cooperative formation criteria

⁵⁵ See comment 27 (72 FR 52690).

QS Suboption under Alternative 1: Purpose and Need

Multi-vessel QS holders wish to maintain the flexibility to choose to join one or more cooperative. Allowing QS holders to participate in both cooperatives and the limited access fishery could serve as an incentive to exclude some limited access members from cooperative formation if doing so can provide a competitive advantage. Requiring QS holders to participate in either cooperative(s) or the limited access fishery would discourage QS holders from seeking to exclude some persons from a cooperative.

The Council's preferred alternative, the requirement that a vessel owner and QS holder assign all QS permits and vessels to either a cooperative or the limited access fishery would not apply until the second fishing year after the rule would be implemented. For example, if the final rule became effective in October 2010, this requirement would not apply until January 1, 2013 fishing year – the second fishing year after October 2012. This two year delay would provide vessel owners and QS holders' time to establish relationships to ensure that all QS permits and vessels could be assigned to either the limited access fishery or a cooperative. Some industry participants have expressed concerns that the "all-in" nature of this requirement could create contentious and complicated cooperative negotiations if vessel owners are unable to enter all of their vessels into a cooperative. Conceivably, if a vessel owner is not able to assign all vessels or QS permits to a cooperative, that vessel owner would be required to assign those permits to the limited access fishery. Based on the past three years of cooperative management, this scenario is unlikely. The current BUC membership is comprised of vessel owners with a wide range of vessels. The cooperative contract governs the specific obligations that each member has and ensures that overall cooperative harvests meet those requirements. It is likely that these cooperative relationships will continue.

The two year time frame would provide the industry time to structure their cooperative contracts to incorporate "all-in" provisions necessary to allow owners of multiple vessels and QS permits to become members in a cooperative. NMFS would enforce this provision by not allowing the owner of multiple QS permits or vessels to assign QS permits or vessels to one or more cooperatives and the Amendment 80 limited access fishery during the annual cooperative application process that is required by November 1 for the fishing year that begins two years after the effective date of this rule, if implemented. This mechanism would ensure that vessel owners and QS holders meet the requirements of this proposed action by the second fishing year after the proposed rule would be effective.

2.5 Summary of potential effects of the Alternatives

2.5.1 Effects on Cooperative Negotiating Leverage within the Amendment 80 sector

This analysis notes that under any of the alternatives under consideration, holders of a limited amount of QS, or owners of smaller vessels relative to other vessels in the Amendment 80 fleet, are likely to have weakened negotiating leverage when seeking favorable terms to join a cooperative as the GRS increases if they cannot be competitive in the limited access fishery and fishing operations in the GOA are not viable. Smaller vessels tend to have less sophisticated processing operations and may not be able to retain as many different species, or retain products as effectively or economically as larger vessels with more expansive processing operations, and greater hold capacity. Larger vessels may face less of an economic imperative to retain only high value species and products and discard lower value species and products. Participants using vessels of any size will find it difficult to receive the benefits of cooperative management if they cannot reach agreement on negotiated terms, the limited access fishery is an unattractive outside option, or (less likely) a cooperative is able to derive some benefit from forcing an entity into the limited access fishery.

General benefits to relaxing cooperative formation standards either by reducing the number of QS permits that must be assigned (Alternative 2), the number of owners required (Alternative 3), a combination of both (Alternative 4), allowing a cooperative to form with a minimum QS holdings (Alternative 5), or allowing any eligible member to join a cooperative (Alternative 6) include: (1) providing additional opportunities to QS holders to form cooperatives because more combinations of unique QS holder and QS permits are possible; (2) reducing the potential risk of any one company being unable to negotiate terms and be forced to fish in the limited access fishery; and (3) reducing the incentive for members of a cooperative to attempt to create conditions that are unfavorable for certain fishery participants to form a cooperative if those fishery participants can form a cooperative independent of other QS holders. Generally, easing cooperative formation standards could reduce the risk that a person may not be able to reach agreement with other members and would be forced into the limited access fishery.

Some industry participants have suggested that there is a risk to any change to the existing cooperative formation standards because such a change would diminish the negotiating leverage of QS holders who may be necessary to meet the threshold requirements under more stringent cooperative formation standards. These participants assert that this potentially adverse effect may be more likely for participants owning vessels that are more likely to be constrained by the GRS as the retention rate increases. As an example, under the existing cooperative formation standard, a maximum of three cooperatives can form, and a person who is either the third unique QS holder or holds the ninth QS permit to allow a cooperative to form may have greater negotiating leverage than could exist under alternatives where there are a greater number of potential persons who are available to allow a cooperative to form. Because the cooperative formation standard is relatively high, and a more limited number of QS permits or QS holders are

available to meet the requirements, any potential participant may be able to negotiate favorable terms, even if those participants have limited QS holdings or lower retention rates relative to other cooperative members. It is not possible to identify which specific potential participant is better able to negotiate more favorable terms relative to other participants. Once the threshold is reached, and those participants are committed to the cooperative, the negotiating leverage of any additional participants would be expected to be more directly related to the QS holdings or other assets (e.g., vessel with high harvesting/processing capacity) that may be of direct financial interest to the cooperative members. Under the most extreme example, as indicated in Table 2-1 under Alternative 4, suboption 4, several QS holders could form cooperatives independent of other QS holders and the negotiating leverage of QS holders who are unable to form cooperatives independently may be diminished relative to those QS holders able to independently form a cooperative.

However, when compared to the status quo it is not clear that changing the cooperative standards would necessarily disadvantage participants who are more constrained by the GRS. Table 2-2 shows that under the status quo several multiple vessel companies could form a cooperative and exclude all other smaller QS holders, or single vessel owners. The single cooperative that has formed in 2008, 2009, and 2010 (see Table 2-2) contains several more members than are necessary to meet the cooperative formation standards. If the cooperative formation standards are relaxed it is not clear that this would adversely affect the negotiating position of participants who have chosen to participate under the current cooperative structure. In fact, it may provide additional negotiating leverage to smaller QS holders or single vessel owners if they have multiple options available to them. Other dynamics may exist between harvesters that favor a larger cooperative structure, but it is not clear how changing the cooperative formation standards would adversely affect those dynamics. Generally, under all alternatives, including the status quo, one would expect QS holders who hold only one QS permit (i.e., own one vessel) to have diminished negotiating leverage relative to QS holders with multiple permits because they are not able to contribute as many QS permits to help meet the minimum QS permit formation standard.

The extent to which specific alternatives would advantage or disadvantage the negotiating leverage of specific fishery participants is not possible to predict quantitatively. The factors that affect the decision to establish a cooperative include numerous subjective and variable factors. Generally, one would expect that less strict cooperative formation standards might provide greater opportunities for cooperatives to form, in general, and greater opportunities for any specific participant to find arrangements that allow them to participate in a cooperative. It is not clear that relaxing the cooperative formation standards reduces the negotiating leverage a participant may have under the status quo alternative as the third unique QS holder or ninth QS permit under the status quo alternative. Overall, one would expect that relaxing the cooperative formation standard would provide a greater likelihood that a greater proportion of the TAC and PSC assigned to the Amendment 80 sector is harvested under cooperative

management. Similarly, allowing all members to join a cooperative would provide increased potential for greater cooperative participation.

Whether cooperatives actually form under any alternative would likely depend on a wide range of factors. These include pre-existing business relationships, the ability to establish mutually agreeable contracts on data sharing and civil enforcement of cooperative contract provisions, whether the fishing operations of the companies created unproductive intra-cooperative competition, the viability of the limited access fishery or forgoing fishing in the BSAI for opportunities in the GOA as an outside option for any potential cooperative participant, and the potential risk or advantage of the participation of a specific vessel operation in ensuring that the cooperative overall would be able to meet the GRS.

The Council's preferred alternative under Alternative 4 of two unique persons and seven QS permits would provide an opportunity for the participants in the limited access fishery to form a cooperative without requiring changes in the membership of the existing cooperative. The Council chose an alternative that would provide some additional flexibility to the Amendment 80 sector to form cooperatives, without requiring drastic changes from the status quo. The Council noted its preferred alternative would require more than one company to coordinate operations to receive an exclusive annual harvest allocation. The Council noted that maintaining a multi-company cooperative structure would extend the Council's overall goals of enhancing coordination among a variety of different industry participants.

Section 2.3.8 of the analysis notes that the alternatives considered, including the Council's preferred alternative, are consistent with the overall goals of the Amendment 80 Program. The Council noted that modifying the cooperative standards originally selected under Amendment 80 to reflect the changing negotiating positions of various industry participants was responsive to the best available information on current fishery conditions. Public input during the Council's consideration of the proposed action generally supported the reduced cooperative formation standard as a mechanism to provide additional opportunities for the current Amendment limited access fishery participants to establish a cooperative.

2.5.2 Effects of the Alternatives on Fishing Patterns in the Amendment 80 sector

This analysis assumes that vessels fishing under a cooperative will realize benefits of LAPP management including a strong incentive to reduce the race for fish. Based on a preliminary review of the 2008 season, and past experience with similar cooperative based management (e.g., AFA cooperatives, Central GOA Rockfish Program, and BSAI Crab Rationalization Cooperatives) participation in a cooperative is likely to allow optimization of harvest rates for product recovery and quality, reduce incentives to operate in adverse weather conditions, and streamline operations to maximum profits. It is possible that participants in the limited access fishery could choose to coordinate their fishing operations and voluntarily form a private contractually-based arrangement to assign a portion of the TAC. However, that voluntary arrangement did not occur during

2008 among limited access fishery participants, does not appear to have been established for 2009, and there is little to suggest such an arrangement would occur in the future.

Alternatives 2 through 6 would be expected to increase the potential that a greater proportion of the catch is harvested under cooperative management. The analysis assumes that alternatives other than the status quo with more restrictive cooperative formation standards would have a lower potential to encourage cooperative management (i.e., Alternative 2, suboption 1) versus those alternatives with less restrictive criteria (i.e., Alternative 4, suboption 4, or Alternative 6). This analysis does not attempt to predict which specific alternative would maximize the potential for cooperative fishing given the lack of any quantitative data.

Because vessels operating in a cooperative receive exclusive, and binding, allocations of PSC, this analysis assumes fishing under a cooperative would have a greater incentive than vessels fishing in the limited access fishery to engage in fishing patterns that may reduce PSC use such as attempting to use halibut excluder devices. In addition, because Alternatives 2 through 6 would be expected to increase the potential for cooperative formation, fewer vessels, and possibly no vessels, would be expected to participate in the limited access fishery. It is possible that vessels that if cooperative formation standards are relaxed so that cooperatives held by one company are allowed to form, the incentive to reduce bycatch may be somewhat diminished to the extent that a multi-company cooperative is likely to have stringent contractual requirements on its members to minimize their bycatch. However, any cooperative, regardless of its membership, is constrained by its allocations of PSC and the potential that a single company cooperative would be less attentive to PSC would be likely to be only the marginal difference between the potential constraints imposed by a multi-party contract and the allocation that a cooperative receives. Generally, the fewer vessels participating in the limited access fishery would be expected to reduce the risk that NMFS managers would fail to close the limited access fishery in time, potentially exceeding the TAC. Again, there are no quantitative data available to assess the potential distinctions that may exist among alternatives.

2.5.3 Potential Effects on Net Benefits to the Nation

Overall, this action is likely to have a limited effect on net benefits realized by the Nation, *ceteris paribus*. Generally, Alternatives 2 through 6 would be expected to encourage cooperative formation, and therefore may encourage fishing practices that are more likely to result in fully harvesting the TAC assigned to the Amendment 80 sector. To the extent that increased participation in cooperatives allows harvesters additional time to focus on improving product forms, there may be some slight consumer benefits realized by the proposed action if the proposed alternatives reduce the risk that a specific harvester, or group of harvesters, would otherwise be unable to participate in a cooperative. Conceivably, the proposed alternatives may increase the economic efficiency of that harvester. An additional potential benefit may result if vessels now active in the limited access fishery formed a cooperative and were able to trade CQ with other cooperatives to maximize their harvest. The preferred alternative (Alternative 4,

suboption 1) would provide additional opportunities for cooperative formation among the participants in the limited access fishery. This could encourage that portion of the fleet now participating in the limited access fishery to begin fishing under a cooperative structure. Currently, the Amendment 80 Program does not allow unharvested TAC assigned to the limited access fishery to be reallocated to a cooperative. If multiple cooperatives form rather than a cooperative and a limited access fishery, CQ could be shared among cooperatives as necessary to maximize their harvest.

Generally, cooperative management reduces management costs to NMFS because cooperatives undertake actions to ensure their allocation is not exceeded, whereas under a limited access fishery, NMFS assumes that management burden and its associated costs. Alternatives 2 through 6 are likely to reduce management costs overall relative to the status quo option to the extent they result in less participation in the limited access fishery. The QS assignment option would be likely to reduce incentives to discourage cooperative formation. Again, the lack of any quantitative data makes it difficult to assess the relative differences in net benefits among the alternatives.

2.5.4 Potential Effects on Management, Enforcement, and Safety

As noted under the effects on net benefits, Alternatives 2 through 6 may reduce some management costs. Enforcement of Alternatives 2 through 6 would not be expected to differ from the status quo because NMFS would continue to require the same catch accounting and reporting protocols regardless of how the cooperative formation standards are changed. The GRS suboption may require some changes in enforcement if this alternative were selected in conjunction with one of the other alternatives. Specifically, under this alternative NMFS would need to monitor the overall retention rates of all cooperatives and determine whether this aggregate retention rate should be applied to all cooperatives. This is not likely to be a substantially greater burden than current GRS monitoring and enforcement currently, assuming that this alternative is applied as described in Section 2.4.6 of this analysis.

Safety is not likely to be effected substantially under any of the alternatives under consideration. Specifically, under each of the alternatives, all vessels are required to comply with minimum safety standards under USCG regulations. Although vessels fishing in cooperatives are likely to have reduced incentives to engage in a potentially dangerous race for fish, and easing cooperative formation standards may encourage greater participation in cooperative management, NMFS does not have quantifiable data to conclude that Alternatives 2 through 6 would result in fishing practices that are substantially different than exist under the limited access fishery, or the status quo option for cooperative formation.

2.5.5 Potential Effects on Fishing Crew and Communities

None of the alternatives would be expected to result in changes in effects to fishing communities or crew. There has been some indication that the Amendment 80 sector is consolidating, or otherwise decreasing the number of active vessels, or crew. As an

example, in late June 2010 based the pending sale of the *Vaerdal* to U.S. Seafoods, Inc., may indicate that vessel owners are consolidating their QS and will limit vessel operations. Preliminary indications from early 2010 indicate that at least two vessels previously active, have not been active in the Amendment 80 fishery. It is unclear if these decisions are unique to specific decisions by vessel owners for 2010, or whether this is indicative of a trend towards consolidation. The alternatives could accelerate any potential consolidation. Modifying cooperative formation standards may provide additional opportunities for vessel owners in the limited access fishery to form a This could lead to greater vessel consolidation. Vessel operations, including the number of crew, crew payments, vessel offloading patterns, time in port, supply and fuel purchases or other factors that may affect communities are not known for the period prior to and after implementation of the Amendment 80 Program. In addition, there is no information available to suggest that modifying cooperative formation standard would affect crew or communities in ways that differ from the status quo. NMFS has no information to suggest that payment to crew differ between cooperative or limited access fishery vessels, or that changing cooperative formation standards would result in any such changes.

3 ENVIRONMENTAL ASSESSMENT

The purpose of this section is to analyze the environmental impacts of the proposed federal action to modify cooperative formation standards under the Amendment 80 Program. An environmental assessment (EA) is intended, in a concise manner, to provide sufficient evidence of whether or not the environmental impacts of the action is significant (40 CFR 1508.9).

Three of the four required components of an environmental assessment are included below. These include brief discussions of the purpose and need for the proposal (Section 3.1), the alternatives under consideration (Section 3.2), and the environmental impacts of the proposed action and alternatives (Section 3.3). The fourth requirement, a list of agencies and persons consulted, is provided in Sections 6, 7, and 8 of this document.

3.1 Purpose and Need

The North Pacific Fishery Management Council (Council) has identified the following purpose and need for the proposed action. Further background information and detail on the intent of the proposed action is provided in Section 2 of this document.

Most participants in the Amendment 80 sector have successfully established a cooperative in the first year of the program. However, some participants have expressed concern that over the long term, cooperative formation standards may disadvantage them, and they may be constrained from establishing cooperative relationships, receiving an exclusive annual harvest allocation, and ending the "race for fish." Smaller vessel owners with limited QS are likely to have weakened negotiating leverage as the groundfish retention standard (GRS)

increases if they cannot be competitive in the limited access fishery and options in the Gulf of Alaska (GOA) are not viable. Participants of any size will find it difficult to receive the benefits of cooperative management if they cannot reach agreement on negotiated terms and the limited access fishery is an unattractive outside option, or a cooperative is able to derive some benefit from forcing an entity into the limited access fishery.

Relaxing cooperative formation standards either by reducing the number of quota share (QS) permits that must be assigned, or the number of owners required could: (1) provide additional opportunities to QS holders to form cooperatives because more relationships are possible; (2) diminish the negotiating leverage of vessel owners who may be necessary to meet the threshold requirements under more stringent cooperative formation standards; (3) reduce the potential risk of any one company being unable to negotiate settlement and be able to fish only in the limited access fishery; and (4) reduce the incentive for members of a cooperative to attempt to create conditions that are unfavorable for certain fishery participants to form a cooperative.

3.2 Description of Alternatives

Six primary alternatives have been identified for analysis. Alternative 1 is the no action alternative. Alternative 2 would reduce the number of unique QS holders required to form a cooperative from three to two or one unique QS holder. Alternative 3 would reduce the number of QS permits required to form a cooperative from the existing nine permits to some lower range (e.g., three permits to the existing nine permits). Alternative 4 would reduce both the number of unique QS holders and the number of QS permits required to form a cooperative (combination of Alternatives 2 and 3 above). Alternative 5 would allow a cooperative to form under the status quo requirements (e.g., nine QS permits, three QS holders) or with a single or collective group of entities that represent 20%, 25%, or 30% of the sector QS. Alternative 6 would require that a cooperative accept all otherwise eligible members. The GRS suboption would be applied in aggregate to all cooperatives if this calculation meets or exceeds the GRS requirement. A detailed description of these alternatives is in Section 2 of this document. A summary table outlining the three alternatives, components, and options considered is provided below (Table 3-1).

Table 3-1 Alternatives and Suboptions for Cooperative Formation (Preferred alternative in bold)

Alternative	Suboption	Minimum	Minimum	Maximum
		number of	number of	number of
		unique QS	QS	cooperatives
		holders	permits	that could
		required	required	form
Alternative 1: Status	N/A	3	9	3
quo				
Alternative 2: Fewer	Suboption 1: 2 unique QS holders	2	9	3
unique QS holders	Suboption 2: 1 unique QS owner	1	9	3
Alternative 3: Fewer QS	Suboption 1: 8 QS permits	3	8	3
permits	Suboption 2: 7 QS permits	3	7	4
	Suboption 3: 6 QS permits	3	6	4
	Suboption 4: 3 QS permits	3	3	9
Alternative 4: Fewer	Suboption 1: 2 QS holders and	3	7	4
unique QS holders and	7 QS permits			
Fewer QS permits	Suboption 2: 2 QS holders and 6	2	6	4
	QS permits			
	Suboption 3: 2 QS owners and 3	2	3	9
	QS permits			
	Suboption 4: 1 QS holder and 6	1	6	4
	QS permits			
	Suboption 5: 1 QS holder and 3	1	3	9
	QS permits			
Alternative 5: Status	Suboption 1: Status quo or 30 %	3 or 1	N/A	3 or 3
quo <u>or</u> Minimum QS	of QS pool			
holding to form	Suboption 2: Status quo or 25 %	3 or 1	N/A	3 or 4
cooperative	of QS pool			
	Suboption 3: Status quo or 20 %	3 or 1	N/A	3 or 5
	of QS pool			
Alternative 6: Accept	N/A	3	9	3
all members				

3.3 Probable Environmental Impacts

This section estimates the effect of the alternatives on the biological, physical, and human environment. The alternatives establish threshold criteria for establishing an Amendment 80 cooperative.

The Bering Sea and Aleutian Islands (BSAI) environment is summarized in Section 3.3.1. The physical and biological effects of the alternatives on the environment and animal species are discussed together in Section 3.3.2. Economic and socioeconomic effects of the alternatives are primarily analyzed in the Regulatory Impact Review in Section 2.4, but are summarized in Section 3.3.3. Cumulative effects are addressed in Sections 3.3.3 through 3.3.5 and summarized in Section 3.3.6.

3.3.1 Affected Environment

Under the Magnuson-Stevens Fishery Conservation and Management Act (Magnuson-Stevens Act) (16 USC 1801 et seq.), the United States has exclusive fishery management authority over all marine fishery resources found within the exclusive economic zone (EEZ), which extends between three and 200 nautical miles from the baseline used to measure the territorial sea. The management of these marine resources is vested in the Secretary of Commerce (Secretary) and in the Regional Councils. In the Alaska Region, the Council has the responsibility for preparing fishery management plans for the marine fisheries that require conservation and management, and for submitting their recommendations to the Secretary. Upon approval by the Secretary, NMFS is charged with carrying out the federal mandates of the Department of Commerce with regard to marine and anadromous fish.

The BSAI groundfish fisheries in the EEZ off Alaska are managed under the Fishery Management Plan for Groundfish of the BSAI. Actions taken to amend fishery management plans or implement other regulations governing these fisheries must meet the requirements of federal laws and regulations. The action area effectively covers all of the BSAI under U.S. jurisdiction, extending southward to include the waters south of the Aleutian Islands west of 170°W to the border of the EEZ (Figure 1).

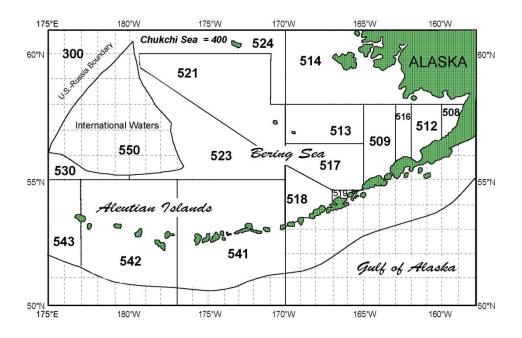


Figure 1 to Part 679--Bering Sea and Aleutian Islands statistical and reporting Areas a. Map $\,$

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Figure 1 BSAI Management Area

The marine waters of the State of Alaska have been treated as a part of the action area because vessels fishing in federal waters pass through state waters, and because some fishing for federal total allowable catch (TAC) takes place in state waters.

Detailed descriptions of the BSAI groundfish fishery may be found in the following reports and are incorporated by reference. Electronic copies of these documents are available at the links provided here.

3.3.1.1 Alaska Groundfish Programmatic Supplemental Environmental Impact Statement

The implementation of the harvest specifications is a project-level action within the fishery management programs under the GOA and BSAI groundfish fishery management plans. In June 2004, NMFS approved the Alaska Groundfish Programmatic Supplemental Environmental Impact Statement (PSEIS) that disclosed the impacts from alternative groundfish fishery management programs on the human environment (NMFS 2004). NMFS issued a Record of Decision on August 26, 2004, with the simultaneous approval

of Amendments 74 and 81 to the GOA and BSAI fishery management plans, respectively. This decision implemented a policy for the groundfish fisheries management programs that is ecosystem-based and is more precautionary when faced with scientific uncertainty. For more information on the PSEIS, see the Alaska Region website at: http://www.alaskafisheries.noaa.gov/sustainablefisheries/seis/default.htm.

The PSEIS analyzed comprehensive policy-level fishery management plan alternatives that examine all of the major components of the BSAI and GOA fishery management plans at a programmatic level, consistent with the requirements of the National Environmental Policy Act (NEPA). Each alternative contains a policy statement, goals and objectives for that policy statement, and except for Alternative 1 (status quo), a pair of fishery management plan "bookends" that illustrate and frame the range of implementing management measures for the alternative's policy. The PSEIS analyzed five policy-level fishery management plan alternatives for the BSAI and GOA groundfish fisheries. Chapters 2 and 4 of the PSEIS describe the alternatives considered. Alternative 1 represented the status quo BSAI and GOA fishery management plans. Alternative 2 was a policy to maximize fishery production and included two fishery management plans with management measures that reduced restrictions on fishing. Alternative 2 included the status quo, as revised by recent Council actions that had yet to be approved by the Secretary. Alternative 3 included two fishery management plan amendments that modified management measures to continue to balance fishery production with ecosystem protection. Alternative 4 was a policy to restrict fishing to the extent necessary to provide the least impacts on the marine environment. The preferred alternative was a combination of elements from Alternatives 3 and 4.

The PSEIS brought the decision-maker and the public up-to-date on the current state of the human environment (as of 2004), while describing the potential environmental, social, and economic consequences of alternative policy approaches and their corresponding management regimes for management of the groundfish fisheries off Alaska. In doing so, the PSEIS serves as the overarching analytical framework that will be used to define future management policy with a range of potential management actions. Future amendments and actions will logically derive from the chosen policy direction set for the PSEIS's preferred alternative.

As stated in the PSEIS, any specific fishery management plan amendments or regulatory actions proposed in the future will be evaluated by subsequent EAs or environmental impact statements (EISs) that incorporate by reference information from the PSEIS but stand as case-specific NEPA documents and offer more detailed analyses of the specific proposed actions. As a comprehensive foundation for management of the GOA and BSAI groundfish fisheries, the PSEIS functions as a baseline analysis for evaluating subsequent management actions and for incorporation by reference into subsequent EAs and EISs which focus on specific federal actions.

The Council on Environmental Quality (CEQ) regulations encourage agencies preparing NEPA documents to incorporate by reference the general discussion from a

programmatic EIS and concentrate solely on the issues specific to the EIS subsequently prepared. According to the CEQ regulations, whenever a programmatic EIS has been prepared and a subsequent EIS is then prepared on an action included within the entire program or policy, the subsequent EIS shall concentrate on the issues specific to the subsequent action. The subsequent EIS need only summarize the issues discussed and incorporate discussions in the programmatic EIS by reference (see 40 CFR 1502.20).

The Alaska Groundfish Harvest Specifications EIS offers a detailed analysis of the proposed action (NMFS 2007). The harvest specification alternatives derive from the policy established in the preferred alternative in the PSEIS. This EA incorporates by reference information from the PSEIS, when applicable, to focus the analysis on the relevant issues and eliminate repetitive discussions.

3.3.1.2 Annual Harvest Specification Environmental Assessments

In addition to the PSEIS, EAs have been written to accompany annual harvest specifications since 1991. The 2005 and 2006 harvest specifications (NMFS 2005) were analyzed in an EA, and a finding of no significant impact was made prior to publication of the specifications. Harvest specification EAs back to 2000 may be found at the NMFS Alaska Region web site at

http://www.alaskafisheries.noaa.gov/index/analyses/analyses.asp#top.

3.3.1.3 Periodic Harvest Specification EIS

The Alaska Groundfish Harvest Specifications EIS (NMFS 2007) replaced the annual EA that accompanied TAC specifications for each new fishing year. This EIS provides decision-makers and the public with an evaluation of the environmental, social, and economic effects of alternative harvest strategies for the federally managed groundfish fisheries in the BSAI and the GOA. It examines alternative harvest strategies that comply with federal regulations, the Fishery Management Plan for Groundfish of the BSAI, the Fishery Management Plan for Groundfish of the GOA, and the Magnuson-Stevens Act. These alternative harvest strategies are applied to the best available scientific information to derive the TAC estimates for the groundfish fisheries. The EIS and supplemental information reports, which review any changes in information since the EIS, are available at http://www.alaskafisheries.noaa.gov/analyses/specs/eis/final.pdf.

3.3.1.4 TAC-Setting EIS

A Supplemental EIS on the process of TAC setting was completed 1998 (NMFS 1998). The impacts of groundfish fishing over a range of TAC levels were analyzed. The Record of Decision in that action was affirmation of the status quo alternative for TAC-setting which comprised regulations and fishery management plans as they stood in 1997. Impacts to the human environment from the federal groundfish fisheries were displayed in that EIS. Setting TAC under the status quo procedures was not found to be having significant impacts on the issues evaluated.

The NEPA documents listed above contain extensive information on the fishery management areas, marine resources, ecosystem, social and economic parameters of

these fisheries and the TAC setting process. Rather than duplicate an affected environment description here, readers are referred to those documents.

Detailed descriptions of the social and economic characteristics of the BSAI groundfish fisheries may be found in the following reports:

- The PSEIS (NMFS 2004) contains detailed fishery descriptions and statistics in Section 3.9, "Social and Economic Conditions."
- The Groundfish Harvest Specifications EIS (NMFS 2007) is updated periodically. The EIS examines alternative harvest strategies that comply with federal regulations, the groundfish fishery management plans, and the Magnuson-Stevens Act. These alternative harvest strategies are applied to the best available scientific information to derive the TAC estimates for the groundfish fisheries. Note that the harvest strategies analyzed therein would apply to BSAI skate specifications also. http://www.alaskafisheries.noaa.gov/analyses/specs/eis/final.pdf
- The Economic Stock Assessment and Fishery Evaluation Report (SAFE Report) is also updated annually. The 2010 edition (Hiatt et al. 2010) contains detailed information about economic aspects of the domestic groundfish fishery off Alaska, including figures and tables, and market analyses for the most commercially valuable species. Sixty tables estimate total groundfish catch, groundfish discards and discard rates, prohibited species bycatch and bycatch rates, the ex-vessel value of the groundfish catch, the ex-vessel value of the catch in other Alaska fisheries, the gross product value of the resulting groundfish seafood products, the number and sizes of vessels that participated in the Alaska groundfish fisheries, vessel activity, and employment on at-sea processors. http://www.afsc.noaa.gov/refm/docs/2010/economic.pdf

3.3.2 Physical and Biological Impacts

3.3.2.1.1 Alternative 1

Alternative 1 represents the status quo, with no changes made to the management of the Amendment 80 cooperative formation standards. Status quo groundfish fishing is annually evaluated in the EA that supports decision-making on annual harvest specifications for the BSAI and GOA groundfish fisheries (NMFS 2007). The EA evaluates all physical and biological resources affected by the groundfish fisheries, and describes the impact of the fisheries. A "beneficial" or "adverse" impact leaves the resource in better or worse, respectively, condition than it would be in an unfished condition. "Significant" impacts are those adverse or beneficial impacts that meet specified criteria for each resource component, but generally are those impacts that affect the species population outside the range of natural variability, and which may affect the sustainability of the species or species group.

The analysis of Alternative 2 in the Alaska Groundfish Harvest Specifications (NMFS 2007) describes status quo fishing, (Alternative 1 in this document) and is incorporated by reference. The EA finds that under status quo groundfish fishery management there is a low probability of overfishing target species, or generating significant adverse impacts

to fish species generally (target, non-specified, forage, or prohibited species). Direct and indirect effects on marine mammals and seabirds have been identified as adverse but not significant because interactions of marine mammals and seabirds with the primary target fisheries are few, and are not likely to create a population-level impact on these species. Direct effects include fishing mortality, changes in biomass, and spatial and temporal concentration of catch that may lead to a change in the population structure. Indirect effects include the changes in prey availability and changes in habitat suitability. Effects on essential fish habitat are minimal and temporary.

Effects on ecosystem relationships are also analyzed as adverse but not significant. Three natural processes underlie changes in population structure of species in marine ecosystems: competition, predation, and environmental disturbance. Natural variations in recruitment, survivorship, and growth of fish stocks are consequences of these processes. Human activities, such as commercial fisheries, can also influence the structure and function of marine ecosystems. Fishing may affect ecosystems by altering energy flows, changing predator-prey relationships and community structure, introducing foreign species, affecting trophic or functional diversity, altering genetic diversity, altering habitat, and damaging benthic organisms or communities. There are areas cited as possible concerns, due to lack of data. These include the catch of coral, bryazoan, or sponge biota in the Atka mackerel and Pacific Ocean perch fisheries, as discussed above, and the effect of bycatch levels on species for which age-structured assessments are not available. At an ecosystem level, the impacts from Alternative 1 cannot be distinguished. Based on the discussions above regarding population-level impacts, and the lack of other impacts to ecosystem attributes, the alternatives will not have a significant impact on the ecosystem.

3.3.2.1.2 Alternatives 2 through 6

The net effect of Alternatives 2 through 5 are to reduce the number of QS holders required to form a cooperative (Alternative 2), the number of QS permits required (Alternative 3), the number of QS holders and QS permits (Alternative 4), or establish a minimum amount of QS that would need to be assigned to a cooperative to allow it to form (Alternative 5). Alternative 6 would allow any member to join a cooperative if otherwise eligible. The alternatives contain various options, but generally increase the potential number of cooperatives that can form and reduce the thresholds to form those cooperatives, or provide an ability for all members to join a cooperative as outlined in Section 2.2 and discussed in Sections 2.4 and 2.5 of this document.

Section 2.4 describes the number of cooperatives that could form and the potential impacts on harvester negotiations under the specific combination of options selected under these alternatives. In terms of effects on the physical and biological environment, however, the effect of these alternatives are likely to be the same as Alternative 1. Under these alternatives, vessels may have increased incentives to join a cooperative, but the ability for a vessel to join a cooperative would not increase the amount of the status quo level of fishing that has been analyzed by NMFS (2007) and determined to have no significant adverse impacts on fish species, marine mammals, seabirds, habitat, or

ecosystem relationships. Under Alternatives 2 through 6 of the action alternatives, including the Council's preferred alternative, the status quo level of fishing activity would continue. As a result, there are no significant or adverse impacts expected under these alternatives.

Effects on target species from this potential increase in the number of participants in a cooperative should not be significant. The TAC is determined annually based on the carrying capacity of target species, and effective monitoring and enforcement are in place to ensure that TACs are not exceeded. Therefore, regardless of the potential increase in the number of vessels participating in a cooperative, the TAC of target species will not increase under this component, nor will the alternatives increase the likelihood that the TAC will be exceeded. In fact, Alternatives 2 through 6 may reduce an already minimal risk that the TAC could be exceeded, by encouraging a greater cooperative formation.

Changes in interactions with other fish species, marine mammals, seabirds, habitat, and ecosystem relations are tied to changes in target fishery effort. Vessels would still have to comply with existing federal regulations protecting Steller sea lion rookeries and haulouts. Direct and indirect effects are not anticipated to occur with any of the alternatives analyzed because the proposed action would not change overall fishing practices that directly or indirectly affect prey availability and habitat suitability.

None of the alternatives could be considered a change in the action upon which the last Endangered Species Act (ESA) Section 7 consultation was based. Given the fact that fishing activity would not increase under Alternatives 2 through 6, and the measures currently in place to protect the physical and biological environment, the potential effect of Alternatives 2 through 6 on an ecosystem scale is very limited. As a result, no significant adverse impacts to marine mammals, seabirds, habitat, or ecosystem relations are anticipated.

GRS and QS assignment suboptions

The GRS and QS assignment suboptions would not be expected to have an effect on target species, interactions with other fish species, marine mammals, seabirds, habitat, and ecosystem relations because this action would merely modify a calculation of total annual retention of groundfish after the end of a fishing year.

3.3.3 Economic and Socioeconomic Impacts

The economic and socioeconomic impacts of the proposed amendment are addressed in the Regulatory Impact Review, Section 2 of this analysis. Alternatives 2 through 6 have very similar general effects, only the number of cooperatives that could be formed and the potential dynamics of cooperative formation negotiations changes with each alternative. The GRS suboption under all of the alternatives would not be expected to have any economic or socioeconomic effect substantially different than the status quo

 $^{^{56}}See\ \underline{http://www.alaskafisheries.noaa.gov/sustainablefisheries/2003hrvstspecssl.htm}$ for regulations and maps.

because it would only alter the computation of the GRS, but not fishing practices in any discernable way. The QS assignment suboption under all of the alternatives would not be expected to have any economic or socioeconomic effect substantially different than the status quo because it would only alter the assignment of QS that could be made by a QS holder prior to fishing, but not fishing practices in any discernable way.

3.3.4 Cumulative Impacts

Analysis of the potential cumulative effects of a proposed action and its alternatives is a requirement of NEPA. Cumulative effects are those combined effects on the quality of the human environment that result from the incremental impact of the proposed action when added to other past, present, and reasonably foreseeable future actions, regardless of what federal or non-federal agency or person undertakes such other actions (40 CFR 1508.7, 1508.25(a), and 1508.25(c)). Cumulative impacts can result from individually minor, but collectively significant, actions taking place over a period of time. The concept behind cumulative effects analysis is to capture the total effects of many actions over time that would be missed by only evaluating each action individually. At the same time, the CEQ guidelines recognize that it is not practical to analyze the cumulative effects of an action on the universe but to focus on those effects that are truly meaningful.

This section analyzes the cumulative effects of the proposed action and the effects of past, present, and reasonably foreseeable future actions. The direct and indirect impacts of relevant recent actions are incorporated into the Physical and Biological Impacts above in Section 3.3.2.

3.3.5 Past and Present Actions

The past and present actions are described in the 2004 Final Alaska Groundfish Fisheries PSEIS (NMFS 2004), the Ground Harvest Specifications EIS (NMFS 2007), and annually the Alaska Groundfish Harvest Specifications Supplementary Information Report (SIR; NMFS 2011). Chapter 3 of the Groundfish Specifications EIS identified reasonably foreseeable future actions that may affect the BSAI and GOA groundfish fisheries and the impacts of the fisheries on the environment. The Ground Harvest Specifications SIR analyzes the information contained in the Council's annual SAFE reports to determine whether a Supplemental EIS should be prepared for the groundfish harvest specifications. To the extent practicable, this analysis incorporates by reference the cumulative effects analyses of the Groundfish PSEIS, the Groundfish Harvest Specifications EIS and SIR.

The cumulative impacts from past management actions are one of the driving forces for support of the proposed amendment. Other fisheries in the region have been subject to increasingly restrictive management measures, with exclusive fishing privileges being the basis for most actions. Some of the management actions that have contributed to the existing conditions are listed below:

• the Individual Fishing Quota Program for the halibut and sablefish fisheries;

- implementation of the American Fisheries Act (AFA), which allocates the BSAI pollock fishery among specified trawl vessels;
- the BSAI crab rationalization program;
- the Central GOA rockfish pilot program, initially approved for two years but recently extended under reauthorization of the Magnuson-Stevens Act;
- adoption of Amendment 79 which implemented the GRS;
- adoption of BSAI Amendment 80, which allocates several BSAI non-pollock trawl groundfish species among trawl fishery sectors and facilitates the formation of harvesting cooperatives in the non-AFA trawl CP sector;
- adoption of Amendment 85 which allocated Pacific cod among fishery sectors in the BSAI;
- adoption of Amendment 90 that would allow cooperatives to exchange catch after delivery;
- adoption of Amendment 92/78 which would remove trawl endorsements from License Limitation Program licenses that have not met minimum recent landing standards:
- adoption of Steller sea lion protection measures to insure that the BSAI
 management area groundfish fisheries are not likely to jeopardize the continued
 existence of the western distinct population segment of Steller sea lions or
 adversely modify its designated critical habitat;
- adoption of Amendment 94 to the BSAI ground fishery management plan, which reduces potential adverse effects of nonpelagic trawl gear on bottom habitat, protects additional blue king crab habitat near St. Matthew Island, and allows for efficient flatfish harvest as the distribution of flatfish in the Bering Sea changes; and
- adoption of an emergency rule to exempt Amendment 80 cooperatives and trawl catcher/processor vessels that are not specified in regulation as AFA vessels from the GRS regulations, in the BSAI management area, that calculated compliance with annual GRS rates and required an unattainable and unenforceable level of retention.

Each management action listed above was analyzed in an EA for those actions. The direct, indirect, and cumulative impacts of those actions are discussed in those EAs and summarized in the Groundfish Harvest Specifications SIR (NMFS 2011).

3.3.6 Reasonably Foreseeable Future Actions

Actions are considered reasonably foreseeable if some concrete step has been taken toward implementation, such as a Council recommendation or NMFS's publication of a proposed rule. Actions only "under consideration" have not generally been included because they may change substantially or may not be adopted, and so cannot be reasonably described, predicted, or foreseen. Identification of actions likely to impact a resource component within this action's area and time frame will allow the public and Council to make a reasoned choice among alternatives.

There are a few management actions currently under development that would not affect the implementation of the proposed amendment. These actions are summarized below.

At its June 2010 meeting, the Council recommended the clarification of standards for replacing an Amendment 80 vessel if lost or permanently ineligible to be used. NMFS is currently developing a proposed rule for this action. The vessel replacement provisions under consideration do not alter cooperative formation standards considered here, because vessels can be replaced currently under the provisions of *Arctic Sole Seafoods v. Gutierrez*.

The Council previously began the process to evaluate a comprehensive rationalization program for GOA groundfish, but that program has been delayed and is not on the Council's near-term agenda.

The Council is currently considering a revised rebuilding plan for the Pribilof Islands blue king crab stock. A rebuilding plan was implemented in 2003 but has not achieved adequate progress to rebuild the stock by 2014. Management actions proposed under the analysis would amend both the BSAI Crab and the BSAI groundfish fishery management plans. Final action on this matter is scheduled for October 2011. The EA for this action can be found at

http://www.alaskafisheries.noaa.gov/npfmc/PDFdocuments/catch_shares/PIBKCrebuildingEA1011.

3.3.7 Summary of Cumulative Effects

As noted above, the cumulative effects of past management decisions are the primary reason for the proposed amendment. The proposed amendment, in itself, is not expected to adversely affect the fisheries sectors (harvesting or processing), market conditions, or communities.

Beyond the cumulative impacts analysis discussed above and documented in the referenced analyses, no additional past, present, or reasonably foreseeable cumulative negative impacts on the biological and physical environment (including fish stocks, essential fish habitat, ESA-listed species, marine mammals, seabirds, or marine ecosystems), fishing communities, fishing safety, or consumers have been identified that would accrue from the proposed action. Cumulatively significant negative impacts on these resources are not anticipated as a result of the proposed action because no negative direct or indirect effects on the resources have been identified.

While there are no expected cumulative adverse impacts on the biological and physical environment, fishing communities, fishing safety, or consumers, there may be economic effects on the groundfish fishery sectors as a result of the proposed action in combination with other actions. As discussed above, participants in the groundfish fishery sectors, specifically the Amendment 80 sector, have experienced several regulatory changes in the past several years that have affected their economic performance. Moreover, a

number of reasonably foreseeable future actions are expected to affect the socioeconomic condition of these sectors.

4 FINAL REGULATORY FLEXIBILITY ANALYSIS

4.1 Introduction

The Regulatory Flexibility Act (RFA), first enacted in 1980, and codified at 5 U.S.C. 600-611, was designed to place the burden on the government to review all regulations to ensure that, while accomplishing their intended purposes, they do not unduly inhibit the ability of small entities to compete. The RFA recognizes that the size of a business, unit of government, or nonprofit organization frequently has a bearing on its ability to comply with a federal regulation. Major goals of the RFA are (1) to increase agency awareness and understanding of the impact of their regulations on small business; (2) to require that agencies communicate and explain their findings to the public; and (3) to encourage agencies to use flexibility and to provide regulatory relief to small entities.

The RFA emphasizes predicting significant adverse impacts on small entities as a group distinct from other entities and on the consideration of alternatives that may minimize the impacts, while still achieving the stated objective of the action. When an agency publishes a rule, it must either (1) "certify" that the action will not have a significant adverse effect on a substantial number of small entities, and support such a certification declaration with a "factual basis," demonstrating this outcome, or (2) if such a certification cannot be supported by a factual basis, prepare and make available for public review a Final Regulatory Flexibility Analysis (FRFA) that describes the impact of the final rule on small entities.

Based upon a preliminary evaluation of the program alternatives, it appears that "certification" would not be appropriate. Therefore, this FRFA has been prepared. Analytical requirements for the FRFA are described below in more detail.

Under 5 U.S.C., Section 604(a), each FRFA is required to contain:

- (1) a succinct statement of the need for, and objectives of, the rule;
- (2) a summary of the significant issues raised by the public comments in response to the initial regulatory flexibility analysis, a summary of the assessment of the agency of such issues, and a statement of any changes made in the final rule as a result of such comments;
- (3) a description of, and an estimate of, the number of small entities to which the rule will apply or an explanation of why no such estimate is available;
- (4) a description of the projected reporting, recordkeeping, and other compliance requirements of the rule, including an estimate of the classes of small entities

which will be subject to the requirement and the type of professional skills necessary for preparation of the report or record; and

(5) a description of the steps the agency has taken to minimize the significant economic impact on small entities consistent with the stated objectives of applicable statutes, including a statement of the factual, policy, and legal reasons for selecting the alternative adopted in the final rule and why each one of the other significant alternatives to the rule considered by the agency which affect the impact on small entities was rejected.

The "universe" of entities to be considered in a FRFA generally includes only those small entities that can reasonably be expected to be directly regulated by the final action. If the effects of the rule fall primarily on a distinct segment of the industry, or portion thereof (e.g., user group, gear type, geographic area), that segment would be considered the universe for purposes of this analysis.

In preparing a FRFA, an agency may provide either a quantifiable or numerical description of the effects of a final rule (and alternatives to the final rule), or more general descriptive statements if quantification is not practicable or reliable.

4.2 Definition of a small entity

The RFA recognizes and defines three kinds of small entities: (1) small businesses, (2) small non-profit organizations, and (3) small government jurisdictions.

Small businesses. Section 601(3) of the RFA defines a 'small business' as having the same meaning as 'small business concern', which is defined under Section 3 of the Small Business Act. 'Small business' or 'small business concern' includes any firm that is independently owned and operated and not dominant in its field of operation. The SBA has further defined a "small business concern" as one "organized for profit, with a place of business located in the United States, and which operates primarily within the United States or which makes a significant contribution to the U.S. economy through payment of taxes or use of American products, materials or labor...A small business concern may be in the legal form of an individual proprietorship, partnership, limited liability company, corporation, joint venture, association, trust or cooperative, except that where the firm is a joint venture there can be no more than 49 percent participation by foreign business entities in the joint venture."

The SBA has established size criteria for all major industry sectors in the United States, including fish harvesting and fish processing businesses. Effective January 5, 2006, a business involved in fish harvesting is a small business if it is independently owned and operated, not dominant in its field of operation (including its affiliates), and if it has combined annual gross receipts not in excess of \$4.0 million for all its affiliated

operations worldwide.⁵⁷ A seafood processor is a small business if it is independently owned and operated, not dominant in its field of operation, and employs 500 or fewer persons on a full-time, part-time, temporary, or other basis, at all its affiliated operations worldwide. A business involved in both the harvesting and processing of seafood products is a small business if it meets the \$4.0 million criterion for fish harvesting operations. Finally, a wholesale business servicing the fishing industry is a small business if it employs 100 or fewer persons on a full-time, part-time, temporary, or other basis, at all its affiliated operations worldwide.

The SBA has established "principles of affiliation" to determine whether a business concern is "independently owned and operated." In general, business concerns are affiliates of each other when one concern controls or has the power to control the other, or a third party controls or has the power to control both. The SBA considers factors such as ownership, management, previous relationships with or ties to another concern, and contractual relationships, in determining whether affiliation exists. Individuals or firms that have identical or substantially identical business or economic interests, such as family members, persons with common investments, or firms that are economically dependent through contractual or other relationships, are treated as one party with such interests aggregated when measuring the size of the concern in question. The SBA counts the receipts or employees of the concern whose size is at issue and those of all its domestic and foreign affiliates, regardless of whether the affiliates are organized for profit, in determining the concern's size. However, business concerns owned and controlled by Indian Tribes, Alaska Regional or Village Corporations organized pursuant to the Alaska Native Claims Settlement Act (43 U.S.C. 1601), Native Hawaiian Organizations, or Community Development Corporations authorized by 42 U.S.C. 9805 are not considered affiliates of such entities, or with other concerns owned by these entities solely because of their common ownership.

Affiliation may be based on stock ownership when: (1) a person is an affiliate of a concern if the person owns or controls, or has the power to control 50 percent or more of its voting stock, or a block of stock which affords control because it is large compared to other outstanding blocks of stock, or (2) if two or more persons each owns, controls or has the power to control less than 50 percent of the voting stock of a concern, with minority holdings that are equal or approximately equal in size, but the aggregate of these minority holdings is large as compared with any other stock holding, each such person is presumed to be an affiliate of the concern.

Affiliation may be based on common management or joint venture arrangements. Affiliation arises where one or more officers, directors, or general partners, controls the board of directors and/or the management of another concern. Parties to a joint venture also may be affiliates. A contractor and subcontractor are treated as joint venturers if the

⁵⁷Effective January 6, 2006, SBA updated the Gross Annual Receipts thresholds for determining "small entity" status under the RFA. This is a periodic action to account for the impact of economic inflation. The revised threshold for "commercial fishing" operations (which, at present, has been determined by NMFS HQ to include catcher-processors, as well as catcher vessels) changed from \$3.5 million to \$4.0 million in annual gross receipts, from all its economic activities and affiliated operations, worldwide.

ostensible subcontractor will perform primary and vital requirements of a contract or if the prime contractor is unusually reliant upon the ostensible subcontractor. All requirements of the contract are considered in reviewing such relationship, including contract management, technical responsibilities, and the percentage of subcontracted work.

<u>Small organizations.</u> The RFA defines "small organizations" as any not-for-profit enterprise that is independently owned and operated, and is not dominant in its field.

<u>Small governmental jurisdictions.</u> The RFA defines "small governmental jurisdictions" as governments of cities, counties, towns, townships, villages, school districts, or special districts with populations of fewer than 50,000.

4.3 Need for and Objective of the Rule

The Council adopted the following purpose and need statement in December 2009:

Most participants in the Amendment 80 sector have successfully established a cooperative in the first year of the program. However, some participants have expressed concern that over the long term, cooperative formation standards may disadvantage them, and they may be constrained from establishing cooperative relationships, receiving an exclusive annual harvest allocation, and ending the "race for fish." Smaller vessel owners with limited QS are likely to have weakened negotiating leverage as the groundfish retention standard (GRS) increases if they cannot be competitive in the limited access fishery and options in the Gulf of Alaska (GOA) are not viable. Participants of any size will find it difficult to receive the benefits of cooperative management if they cannot reach agreement on negotiated terms and the limited access fishery is an unattractive outside option, or a cooperative is able to derive some benefit from forcing an entity into the limited access fishery.

Relaxing cooperative formation standards either by reducing the number of quota share (QS) permits that must be assigned, or the number of owners required, or by requiring that any otherwise eligible member be accepted by a cooperative subject to the same terms and conditions as other members could: (1) provide additional opportunities to QS holders to form cooperatives, because more relationships are possible; (2) diminish the negotiating leverage of vessel owners who may be necessary to meet the threshold requirements under more stringent cooperative formation standards; (3) reduce the potential risk of any one company being unable to negotiate settlement and be able to fish only in the limited access fishery; and (4) reduce the incentive for members of a cooperative to attempt to create conditions that are unfavorable for certain fishery participants to form a cooperative.

Under the authority of the Magnuson-Stevens Fishery Conservation and Management Act (Magnuson-Stevens Act), the Secretary of Commerce and in the Alaska region, the North Pacific Fishery Management Council, have the responsibility to prepare fishery management plans and associated regulations for the marine resources found to require conservation and management. NMFS is charged with carrying out the federal mandates

of the Department of Commerce with regard to marine fish, including the publication of federal regulations. The Alaska Regional Office of NMFS, and Alaska Fisheries Science Center, research, draft, and support the management actions recommended by the Council.

The groundfish fisheries in the BSAI and GOA are managed under two fishery management plans: the Bering Sea and Aleutian Islands Groundfish Fishery Management Plan and the Gulf of Alaska Groundfish Fishery Management Plan. The proposed action is a federal regulatory amendment; the fisheries that would be affected occur within the EEZ waters administered under the BSAI FMP. The proposed action would modify the criteria necessary for holders of Amendment 80 QS to form a cooperative and fish under a limited access privilege program. The intent is to provide additional incentives for Amendment 80 participants to improve their economic and structural stability by ending the race for fish.

There are several suboptions under the action alternatives. The range of Alternatives, and suboptions considered under this amendment package is provided in Table 2-1 in Section 2 of this document.

4.4 Public Comments on the Initial Regulatory Flexibility Analysis

The proposed rule for this action was published in the *Federal Register* on August 10, 2011 (76 FR 49417), and the public comment period closed on September 9, 2011. An Initial Regulatory Flexibility Analysis was prepared for the proposed rule and described in the classification section of the preamble to the proposed rule.

NMFS received three comment letters on the proposed rule. One public comment did not directly address Amendment 93 or the proposed rule. The other two comments were in support of the action. None of the comments related to the IRFA. No changes were made between the proposed rule and final rule.

4.5 Number and description of directed regulated small entities

Information concerning ownership of vessels and processors, and QS holdings that would be used to estimate the number of small entities that are directly regulated by this action, is somewhat limited, as is typically the case for NPFMC analyses. To estimate the number of small versus large entities, gross earnings from all fisheries of record for 2007 were matched with the vessels, the known ownership of those vessels, and the known affiliations of those vessels in the BSAI or GOA groundfish fisheries for that year. NMFS has specific information on the ownership of vessels and the affiliations that exist based on data provided by the Amendment 80 sector, as well as a review of ownership data independently available to NMFS on Federal Fisheries Permit and LLP applications. The vessels with a common ownership linkage, and therefore affiliation, are reported in Table 2-2 in section 2 of this document. In addition, those vessels that are assigned to a cooperative and receive an exclusive harvest privilege would be categorized as large entities for the purpose of the RFA, under the principles of affiliation, due to their

participation in a harvesting cooperative. (Note that 2008 is the most recent available dataset for ownership, catch, and revenue data at the time that this IRFA was prepared).

Potentially, 28 non-AFA trawl catcher processors could generate Amendment 80 QS, based on the provisions of the Amendment 80 Program. Those persons who apply for and receive Amendment 80 QS are eligible to fish in the Amendment 80 sector, and those QS holders would be directly regulated by the proposed action. Vessels that are assigned Amendment 80 QS and that are eligible to fish in the Amendment 80 sectors are commonly known as Amendment 80 vessels. Currently, there are 27 Amendment 80 vessels that would be directly regulated based on this action. One vessel owners who could be eligible for the Amendment 80 Program and could apply for Amendment 80 QS has not done so, and would not be directly regulated by the proposed action. Based on the known affiliations and ownership of the Amendment 80 vessels, all but one of the Amendment QS holders would be categorized as a large entities for the purpose of the RFA, under the principles of affiliation, due to their participation in a harvest cooperative or through known ownership of multiple vessels, co-ownership and "shares" ownership among vessels, and other economic and operational affiliations. Thus, this analysis estimates that only one small entity would be directly regulated by the proposed action. It is possible that this one small entity could be linked by company affiliation to a large entity, which may then qualify that entity as a large entity, but complete information is not available to determine any such linkages.

4.6 Recordkeeping and reporting requirements

Recordkeeping and reporting requirements are not expected to change as a result of the proposed action. The action under consideration requires no additional reporting, recordkeeping, or other compliance requirements that differ from the status quo.

4.7 Relevant Federal rules that may duplicate, overlap, or conflict with the proposed action

No relevant federal rules have been identified that would duplicate or overlap with the proposed action under any of the proposed alternatives.

4.8 Description of steps taken to minimize significant economic impact on small

The suite of potential actions includes six alternatives. Alternative 1 is the no action alternative. Alternative 2 would reduce the number of unique QS holders required to form a cooperative from three to two or one unique QS holder. Alternative 3 would reduce the number of QS permits required to form a cooperative from the existing 9 permits to some lower range (e.g., three permits to the existing 9 permits). Alternative 4 would reduce both the number of unique QS holders and the number of QS permits required to form a cooperative (combination of Alternatives 2 and 3 above). Alternative 5 would allow a cooperative to form under the status quo requirements or with a single or collective group of entities that represent 20%, 25%, or 30% of the sector QS. Alternative 6 would require a cooperative to accept any otherwise eligible member. A

detailed description of these alternatives is in Section 2 of this document. A summary table outlining the six alternatives, components, and options considered is provided above (Table 2-1).

There are several suboptions under the potential actions. The range of alternatives, and suboptions considered under this amendment package is provided in Section 2 of this document. The Council's preferred alternative is described in Section 2 of this document.

The primary intent of the amendment is to provide additional incentives and opportunities for a greater proportion of the Amendment 80 sector to participate in a cooperative management under the Amendment 80 Program. Within the universe of small entities that are the subject of this FRFA, it is not clear that any of the proposed alternatives would have an adverse impact on small entities.

Based upon the best available scientific data and information, and consideration of the objectives of this action, one may draw the following conclusion. It appears that the preferred alternative is the only alternative considered for this action that has the potential to accomplish the stated objectives of the Magnuson-Stevens Act and any other applicable statutes, as reflected in the proposed action, while minimizing significant adverse economic impacts on directly regulated small entities.

5 CONSISTENCY WITH APPLICABLE LAW AND POLICY

This section examines the consistency of cooperative formation standard alternatives with the National Standards and Fishery Impact Statement requirements in the Magnuson-Stevens Act and Executive Order 12866.

5.1 National Standards

Below are the ten National Standards as contained in the Magnuson-Stevens Act, and a brief discussion of the consistency of the proposed alternatives with each of those National Standards, as applicable.

National Standard 1

Conservation and management measures shall prevent overfishing while achieving, on a continuing basis, the optimum yield from each fishery.

None of the alternatives considered in this action would affect overfishing of groundfish in the BSAI or GOA. The alternatives would also not affect, on a continuing basis, the ability to achieve the optimum yield from each groundfish fishery.

National Standard 2

Conservation and management measures shall be based upon the best scientific information available.

The analysis for this amendment is based upon the most recent and best scientific information available. It was necessary for NMFS staff to develop a series of new databases to complete the analyses contained herein.

National Standard 3

To the extent practicable, an individual stock of fish shall be managed as a unit throughout its range, and interrelated stocks of fish shall be managed as a unit or in close coordination.

The proposed action is consistent with the management of individual stocks as a unit or interrelated stocks as a unit or in close coordination.

National Standard 4

Conservation and management measures shall not discriminate between residents of different states. If it becomes necessary to allocate or assign fishing privileges among various U.S. fishermen, such allocation shall be (A) fair and equitable to all such fishermen, (B) reasonably calculated to promote conservation, and (C) carried out in such a manner that no particular individual, corporation, or other entity acquires an excessive share of such privileges.

The proposed alternatives treat all QS holders the same. The proposed alternatives would be implemented without discrimination among participants and are intended to promote conservation of the groundfish resources in the BSAI and GOA.

National Standard 5

Conservation and management measures shall, where practicable, consider efficiency in the utilization of fishery resources, except that no such measure shall have economic allocation as its sole purpose.

This action will potentially provide greater opportunities for QS holders to participate in cooperative management. To the extent that cooperative management reduces the race for fish it will improve efficiency in utilization of the trawl groundfish resource in the BSAI.

National Standard 6

Conservation and management measures shall take into account and allow for variations among, and contingencies in, fisheries, fishery resources, and catches.

None of the proposed alternatives are expected to affect the availability of and variability in the groundfish resources in the BSAI and GOA in future years. The harvest would be managed to and limited by the TACs for each species, regardless of the proposed action considered in this amendment.

National Standard 7

Conservation and management measures shall, where practicable, minimize costs and avoid unnecessary duplication.

This action would not impose additional costs for compliance, and does not duplicate any other management action.

National Standard 8

Conservation and management measures shall, consistent with the conservation requirements of this Act (including the prevention of overfishing and rebuilding of overfished stocks), take into account the importance of fishery resources to fishing communities in order to (A) provide for the sustained participation of such communities, and (B) to the extent practicable, minimize adverse economic impacts on such communities.

This action is not expected to have adverse impacts on communities or affect community sustainability, primarily because it is unlikely that any alternative would result in extinguishing harvest opportunities for vessels with a high degree of economic dependence upon the trawl groundfish fisheries. This action would not remove the ability of fishing vessels, communities, or crew to continue to sustain participation in the Amendment 80 fishery.

National Standard 9

Conservation and management measures shall, to the extent practicable, (A) minimize bycatch, and (B) to the extent bycatch cannot be avoided, minimize the mortality of such bycatch.

This proposed amendment could help to minimize bycatch by providing additional incentives for harvesters to participate in a cooperative and realize the potential benefits of limited access privilege programs.

National Standard 10

Conservation and management measures shall, to the extent practicable, promote the safety of human life at sea.

The alternatives proposed should have no effect on safety at sea, except to the extent that they could encourage participants to choose to join a form of cooperative management that may provide incentives for the participants in that cooperative to end the race for fish and engage in fishing behavior that is less likely to put a vessel or crew in adverse conditions.

5.2 Section 303(a)(9) – Fisheries Impact Statement

Section 303(a)(9) of the Magnuson-Stevens Act requires that any management measure submitted by the Council take into account potential impacts on the participants in the fisheries, as well as participants in adjacent fisheries. The impacts on participants in the

trawl groundfish fisheries in the BSAI and GOA have been discussed in previous sections of this document (see Section 2). The proposed action is not anticipated to have effects on participants in other fisheries.

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