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- ❖ *Endnotes*
  - ❖ *Bibliography*
  - ❖ *Credits: Photographs, Illustrations, Maps*
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## ENDNOTES

### Prologue — Chapter I

1. John Muir, *Travels in Alaska* (San Francisco: Sierra Club Books, 1988; originally published by Houghton Mifflin, 1915), p. 11.
2. I. C. Russell quoted in George W. Rogers, *The Future of Alaska: Economic Consequences of Statehood* (Baltimore: Johns Hopkins Press, 1962), p. 8.
3. John McPhee, quoting Bob Fedeler, in *Coming Into the Country* (New York: Bantam Books, 1977), pp. 9-10; see also p. 54.
4. John A. Hellenthal, *The Alaskan Melodrama* (New York: Liveright Publishing Company, 1936), p. vii.
5. Lyman L. Woodman, *The Army Corps of Engineers in Alaska Starting in 1896 and History of its Alaska District During 1946-1974*, unpublished manuscript, Alaska District, U.S. Army Corps of Engineers, 1976, p. 1.
6. Col. James D. Bush, *Narrative Report of Alaska Construction, 1941-1944*, unpublished manuscript, Alaska District, U.S. Army Corps of Engineers, Anchorage, 1944, (reprinted 1984), pp. 88-89.
7. Bush, *Narrative Report of Alaska Construction*, pp. 9-10.
8. Bush, *Narrative Report of Alaska Construction*, p. 10.
9. Bush, *Narrative Report of Alaska Construction*, pp. 10-11.
10. W. A. Jacobs, *History of the Alaska District, United States Army Corps of Engineers, 1946-1974*, unpublished manuscript, Elmendorf Air Force Base, U.S. Army Corps of Engineers, 1976, pp. 3-4; Woodman, *The Army Corps of Engineers in Alaska*, pp. 1-3.
11. Col. B. B. Talley Daily Log, May 4, 1941, Talley Logs, Alaska District Library, Anchorage, AK. Collection hereafter cited as Talley, "Logs."

The expression for the vegetable growth at Nome is "tundra," at Yakutat and Annette Island, "muskeg," and at Anchorage and Fairbanks, "moss." There is a difference between the vegetation at these three places. At Annette Island and at Yakutat, where the expression "muskeg" is used the mossy growth ranging in depth from a few inches to several feet overlays a bed of gravel which is saturated at all times. Water is usually at ground level and this area is seldom frozen. At most times in walking across the muskeg one will bog down about 6 inches or should he step off the moss, would go into water from 1 foot to several feet deep. The area of Annette Island and of Yakutat is frequented by heavy snows and the ground is always wet. At Anchorage and Fairbanks the climate is much drier and the moss is only a few inches thick and is usually dry. The ground at Fairbanks is frozen most of the year, although it does thaw to a depth of 18 inches to 2 feet during the summer time. At Anchorage the ground freezes in the winter and thaws in the summer. Although the ground is more firm in the vicinity of Anchorage and Fairbanks than at Yakutat or Annette Island, one is still unable to drive a wheeled vehicle off the main roads with safety. At Nome and in the area of northwestern Alaska where the expression "tundra" is used the vegetable growth is from 6 inches to a foot or more in depth and overlays a map of ice except in a few isolated localities or along stream beds. In the winter the tundra is frozen and in the summer it thaws down several inches and as it thaws the water remains more or less on the ground all summer. It is very wet in the summer due to this melting and of course is frozen solid in winter.
12. Jacobs, *History of the Alaska District*, p. 5.

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13. Woodman, *The Army Corps of Engineers in Alaska*, pp. 3, 214-217; Talley, "Logs," Sept. 12, 1941. In a discussion of permafrost at the airfield in Bethel, Alaska, Col. Talley, the Area Engineer, described the different theories of building on permafrost:

There are two schools of thought regarding construction on frozen ground. One school believes in placing sand and gravel in whatever quantities are necessary on top of the frozen area without disturbing the tundra. This school believes the sand and gravel will form sufficient insulation to keep the tundra from thawing. The other school removes the tundra and places the fill on the frozen ground and as the ground thaws maintenance work is done as required.

Talley favored stripping the ground of tundra.

14. Woodman, *The Army Corps of Engineers in Alaska*, p. 5.

15. Woodman, *The Army Corps of Engineers in Alaska*, pp. 5-6.

16. Woodman, *The Army Corps of Engineers in Alaska*, p. 6; Clarence C. Hulley, *Alaska: Past and Present* (Portland: Binford & Mort, Publishers, 1970), p. 202; Claus-M. Naske, *An Interpretative History of Alaskan Statehood* (Anchorage: Alaska Northwest Publishing Company, 1973), p. 1.

17. Peter A. Coates, *The Trans-Alaska Pipeline Controversy: Technology, Conservation, and the Frontier* (Toronto: Associated University Presses, 1991), pp. 30-31.

18. Frederick Merk, *Manifest Destiny and Mission in American History* (New York: Vintage, 1963), p. 229.

19. Hulley, *Alaska: Past and Present*, pp. 203, 209-210.

20. Naske, *An Interpretative History of Alaskan Statehood*, p. 3.

21. Hulley, *Alaska: Past and Present*, p. 211.

22. Hulley, *Alaska: Past and Present*, pp. 213-214.

23. Hulley, *Alaska: Past and Present*, p. 214.

24. Hulley, *Alaska: Past and Present*, pp. 220-221.

25. Woodman, *The Army Corps of Engineers in Alaska*, p. 8.

26. Melody Webb, *The Last Frontier* (Albuquerque: University of New Mexico Press, 1985), p. 144.

27. Woodman, *The Army Corps of Engineers in Alaska*, p. 8. See also Webb, *The Last Frontier*, pp. 148-154.

28. Naske, *An Interpretative History of Alaskan Statehood*, p. 19; Hulley, *Alaska: Past and Present*, pp. 287-288.

29. Naske, *An Interpretative History of Alaskan Statehood*, p. 31; Hulley, *Alaska: Past and Present*, pp. 306-308.

30. Mary E. Reed, *A History of the North Pacific Division* (Portland: U.S. Army Corps of Engineers, North Pacific Division, 1991), pp. 200-201.

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31. William H. Goetzmann, *Exploration and Empire: The Explorer and the Scientist in the Winning of the American West* (New York: W. W. Norton & Company, 1966), pp. 399-401, 488; *The History of the U.S. Army Corps of Engineers*, (Washington, D.C.: U.S. Army Corps of Engineers, 1986), p. 31; Frank N. Schubert, *Vanguard of Expansion: Army Engineers in the Trans-Mississippi West, 1819-1879*, (Washington, D.C.: Historical Division, Office of Administrative Services, Office of the Chief of Engineers, 1980) p. 149.
  32. Woodman, *The Army Corps of Engineers in Alaska*, p. 7; Reed, *A History of the North Pacific Division*, pp. 200-201.
  33. Woodman, *The Army Corps of Engineers in Alaska*, p. 7; Reed, *A History of the North Pacific Division*, p. 201.
  34. Woodman, *The Army Corps of Engineers in Alaska*, pp. 9-10; Reed, *A History of the North Pacific Division*, p. 202.
  35. Woodman, *The Army Corps of Engineers in Alaska*, pp. 8-9; Reed, *A History of the North Pacific Division*, p. 203.
  36. Reed, *A History of the North Pacific Division*, p. 202.
  37. Woodman, *The Army Corps of Engineers in Alaska*, p. 10; Reed, *A History of the North Pacific Division*, p. 202.
  38. Woodman, *The Army Corps of Engineers in Alaska*, p. 9.
  39. Woodman, *The Army Corps of Engineers in Alaska*, p. 9; Reed, *A History of the North Pacific Division*, p. 203.
  40. Reed, *A History of the North Pacific Division*, p. 204.
  41. Woodman, *The Army Corps of Engineers in Alaska*, p. 9.
  42. Woodman, *The Army Corps of Engineers in Alaska*, p. 10.
  43. Reed, *A History of the North Pacific Division*, p. 202.
  44. Woodman, *The Army Corps of Engineers in Alaska*, p. 10.
  45. Woodman, *The Army Corps of Engineers in Alaska*, p. 11.
  46. Jacobs, *History of the Alaska District*, p. 10.
  47. Jacobs, *History of the Alaska District*, p. 10.
  48. Jacobs, *History of the Alaska District*, p. 11.
  49. Woodman, *The Army Corps of Engineers in Alaska*, p. 11.
  50. Woodman, *The Army Corps of Engineers in Alaska*, pp. 11-12.

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51. Woodman, *The Army Corps of Engineers in Alaska*, pp. 11-12.
52. Reed, *A History of the North Pacific Division*, p. 1.
53. Reed, *A History of the North Pacific Division*, p. 200.
54. Jacobs, *History of the Alaska District*, p. 14. See also Woodman, *The Army Corps of Engineers in Alaska*, p. 14. Karl Dod, in *The Corps of Engineers: The War Against Japan* (Washington: Office of the Chief of Military History, U.S. Army, 1966), p. 28, states that the Area office in Anchorage was not established until 1941 under orders from Colonel Beverly Dunn. Both Jacobs and Woodman cite the 1939 date. It seems likely that the responsibilities of the Anchorage office were expanded in 1941 in order to handle the increase in military construction as World War II intensified. Colonel Talley was transferred from Yakutat to the Anchorage office in 1941.

## Chapter II

1. Terrence M. Cole, "Alaska or Bust: The Promise of the Alaska Highway," in Terrence M. Cole, et al., *Alaska or Bust: The Promise of the Road North* (Fairbanks: University of Alaska Museum, 1992), p. 13.
2. Thomas A. Bailey and David M. Kennedy, *The American Pageant: A History of the Republic* (Lexington, Massachusetts: D.C. Heath and Company, 1991), pp. 779-781.
3. Bailey and Kennedy, *The American Pageant*, pp. 821-826.
4. Bailey and Kennedy, *The American Pageant*, pp. 821-826.
5. Bailey and Kennedy, *The American Pageant*, p. 829.
6. Stetson Conn, Rose C. Engelman, and Byron Fairchild, *Guarding the United States and Its Outposts* (Washington, D.C.: Office of the Chief of Military History, 1964), pp. 223-224; Jacobs, *History of the Alaska District*, p. 13.
7. Bush, *Narrative Report of Alaska Construction*, p. 12.
8. George W. Rogers quoted in Jacobs, *History of the Alaska District*, p. 1.
9. Dod, *The Corps of Engineers: The War Against Japan*, p. 679; Blanche D. Coll, Jean E. Keith, and Herbert H. Rosenthal, *The Corps of Engineers: Troops and Equipment* (Washington, D.C.: Office of the Chief of Military History, 1958), pp. 2, 5.
10. Jacobs, *History of the Alaska District*, p. 11.
11. Bush, *Narrative Report of Alaska Construction*, p.11; Dod, *The Corps of Engineers: The War Against Japan*, p. 679.
12. Jacobs, *History of the Alaska District*, p. 14; Woodman, *The Army Corps of Engineers in Alaska*, p. 14; Bush, *Narrative Report of Alaska Construction*, p. 12.
13. John Haile Cloe, Interview with Brigadier General B. B. Talley, Point Anchor, Alaska, September 28-30, 1979. Hereafter cited as Talley Interview.

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14. Talley Interview, p. 3; Bush, *Narrative Report of Alaska Construction*, p. 14.
  15. Talley Interview, pp. 7, 195. See also p. 108.
  16. Talley Interview, pp. 59, 236-239.
  17. Joseph Driscoll, *War Discovers Alaska* (New York: J. B. Lippincott Company, 1943), p. 135.
  18. Talley Interview, p. 197.
  19. Talley, "Logs," May 18, 1941; May 28, 1941.
  20. Talley Interview, pp. 247-248.
  21. Bush, *Narrative Report of Alaska Construction*, pp. 190-191, 195-196; Talley, "Logs," Nov. 13, 1940; Mar. 4, 1941; Nov. 11, 1943; May 1943.
  22. Talley, "Logs," Nov. 2, 1940.
  23. Talley, "Logs," Dec. 7, 1940.
  24. Talley, "Logs," Dec. 18, 1940.
  25. Lyman R. Ellsworth, *Guys on Ice* (New York: David McKay Company, Inc., 1952), pp. 131, 171.
  26. Bush, *Narrative Report of Alaska Construction*, p. 11; Talley, "Logs," Apr. 21, 1942; Mar. 16, 1943.
  27. Talley, "Logs," passim.
  28. Talley Interview, p. 6.
  29. Talley, "Logs," Dec. 18, 1942.
  30. Talley, "Logs," Apr. 9, 1941; Dec. 28, 1940; Sept. 13, 1941.
  31. Talley Interview, p. 138.
  32. Talley, "Logs," Jun. 24, 1942.
  33. Bush, *Narrative Report of Alaska Construction*, pp. 229-230.
  34. Bush, *Narrative Report of Alaska Construction*, p. 260.
  35. Bush, *Narrative Report of Alaska Construction*, p. 269.
  36. Bush, *Narrative Report of Alaska Construction*, p. 269; Talley, "Logs," passim.
  37. Bush, *Narrative Report of Alaska Construction*, pp. 269-270.
  38. Bush, *Narrative Report of Alaska Construction*, p. 279.

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39. Talley, "Logs," Mar. 14, 1943.
40. Bush, *Narrative Report of Alaska Construction*, p. 279.
41. Bush, *Narrative Report of Alaska Construction*, Preface.
42. Bush, *Narrative Report of Alaska Construction*, p. 7.
43. Bush, *Narrative Report of Alaska Construction*, p. 19; Dod, *The Corps of Engineers: The War Against Japan*, pp. 12, 28.
44. Bush, *Narrative Report of Alaska Construction*, pp. 19, 20; Dod, *The Corps of Engineers: The War Against Japan*, p. 28.
45. In one instance, an 80-foot-square section of concrete runway collapsed when changes in the course of the nearby Chena River caused the permafrost to thaw. The concrete runway and the semi-frozen subsurface to a depth of 15 feet had to be removed. Bush, *Narrative Report of Alaska Construction*, p. 20.
46. Bush, *Narrative Report of Alaska Construction*, p. 208.
47. Bush, *Narrative Report of Alaska Construction*, pp. 208-209.
48. Dod, *The Corps of Engineers: The War Against Japan*, p. 28.
49. Talley, "Logs," Jan. 12, 1941.
50. Talley, "Logs," Feb. 23, 1941.
51. Bush, *Narrative Report of Alaska Construction*, p. 27.
52. Bush, *Narrative Report of Alaska Construction*, pp. 27-28.
53. Bush, *Narrative Report of Alaska Construction*, p. 28.
54. Bush, *Narrative Report of Alaska Construction*, p. 40.
55. Bush, *Narrative Report of Alaska Construction*, pp. 41-42.
56. Bush, *Narrative Report of Alaska Construction*, p. 42.
57. Bush, *Narrative Report of Alaska Construction*, p. 48.
58. Talley, "Logs," Nov. 9, 1940.
59. Talley, "Logs," Oct. 28, 1940.
60. Talley, "Logs," Oct. 23-25, 1940.
61. Talley, "Logs," Oct. 28, 1940.

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62. Talley, "Logs," Oct. 29, 1940.
  63. Talley, "Logs," Oct. 30, 1940.
  64. Talley, "Logs," Oct. 31-Nov. 1, 1940.
  65. Talley, "Logs," Nov. 2, 1940.
  66. Talley, "Logs," Nov. 9, 1940.
  67. Talley, "Logs," Nov. 11-12, 1940.
  68. Talley, "Logs," Nov. 14-18, 1940.
  69. Talley, "Logs," Nov. 10, 1940.
  70. Bush, *Narrative Report of Alaska Construction*, pp. 50-51.
  71. Bush, *Narrative Report of Alaska Construction*, p. 53.
  72. Bush, *Narrative Report of Alaska Construction*, p. 55.
  73. Bush, *Narrative Report of Alaska Construction*, pp. 56-57.
  74. Jacobs, *History of the Alaska District*, p. 13.
  75. Bush, *Narrative Report of Alaska Construction*, pp. 148-149.
  76. Bush, *Narrative Report of Alaska Construction*, p. 216.
  77. Bush, *Narrative Report of Alaska Construction*, p. 217.
  78. Talley, "Logs," Jun. 7, 1941; Jul. 19, 1941.
  79. Bush, *Narrative Report of Alaska Construction*, p. 218.
  80. Later, detectors did not require location on a high promontory, and they could be installed in more accessible areas. Yet, transporting supplies and materials to the detector sites remained a major problem for engineers.
  81. Bush, *Narrative Report of Alaska Construction*, pp. 219-220.
  82. Bush, *Narrative Report of Alaska Construction*, p. 220.
  83. Talley, "Logs," Jun. 5, 1941; Sept. 17, 1941.
  84. Talley, "Logs," Jun. 7, 1941; Bush, *Narrative Report of Alaska Construction*, p. 221.
  85. Talley, "Logs," Sept. 17, 1941.



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86. Talley, "Logs," Aug. 18, 1941.
87. Talley, "Logs," Aug. 23, 1941.
88. Bush, *Narrative Report of Alaska Construction*, p. 91.
89. Bush, *Narrative Report of Alaska Construction*, pp. 100-101.
90. Bush, *Narrative Report of Alaska Construction*, p. 98.
91. Bush, *Narrative Report of Alaska Construction*, pp. 102-103.
92. Bush, *Narrative Report of Alaska Construction*, pp. 105-106.
93. Bush, *Narrative Report of Alaska Construction*, pp. 106-108. In September, 1943, much of the authorized construction at Bethel was cancelled as a result of the curtailment program. Troops were then subsequently withdrawn from the Bethel Project.
94. Bush, *Narrative Report of Alaska Construction*, pp. 113-115.
95. Bush, *Narrative Report of Alaska Construction*, p. 115.
96. Bush, *Narrative Report of Alaska Construction*, pp. 108-110.
97. Bush, *Narrative Report of Alaska Construction*, pp. 110-113.
98. Talley, "Logs," Jan. 11, 1943.
99. Bush, *Narrative Report of Alaska Construction*, pp. 120-121.
100. Bush, *Narrative Report of Alaska Construction*, pp. 117-118.
101. Bush, *Narrative Report of Alaska Construction*, pp. 92-93. For his construction work in Alaska, particularly at Nome, Captain John W. Baum received the Legion of Merit. Subsequent Resident Engineers were: Captain Burford M. Tanner; Major Frank P. Brook; and Captain John F. McDermott.

## **Chapter III**

1. Quoted in Cole, "Alaska or Bust: The Promise of the Alaska Highway," pp. 14-15.
2. Talley Interview, p. 9.
3. Reed, *A History of the North Pacific Division*, p. 204; Conn, Engelman, and Fairchild, *Guarding the United States and Its Outposts*, pp. 225-226.
4. Jacobs, *History of the Alaska District*, p. 11.
5. Bush, *Narrative Report of Alaska Construction*, p. 7.
6. Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 17.

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7. Jacobs, *History of the Alaska District*, p. 13.
  8. Chandonnet, ed., *Alaska at War*, p. 63.
  9. Talley, "Logs," Feb. 20, 1941.
  10. Talley, "Logs," Feb. 24, 1941.
  11. Talley, "Logs," Feb. 25, 1941.
  12. Talley, "Logs," Feb. 27, 1941.
  13. Talley, "Logs," Mar. 6, 1941.
  14. Talley, "Logs," Mar. 10, 1941.
  15. Talley, "Logs," Mar. 10, 1941.
  16. Talley, "Logs," Apr. 26, 1941.
  17. Talley, "Logs," Feb. 4, 1942, Mar. 24, 1942; Bush, *Narrative Report of Alaska Construction*, p. 244.
  18. Bush, *Narrative Report of Alaska Construction*, pp. 151-152.
  19. Talley, "Logs," Oct. 13, 1941.
  20. Talley, "Logs," Oct. 22, 1941.
  21. Talley, "Logs," Oct. 23, 1941.
  22. Talley, "Logs," Dec. 12-14, Dec. 26, 1941.
  23. Talley, "Logs," May 26, 1941.
  24. Talley, "Logs," Mar. 27, 1942.
  25. Bush, *Narrative Report of Alaska Construction*, pp. 160-161.
  26. Bush, *Narrative Report of Alaska Construction*, pp. 161-162.
  27. Bush, *Narrative Report of Alaska Construction*, pp. 162-164.
  28. Bush, *Narrative Report of Alaska Construction*, pp. 163-164.
  29. 5th Supplemental National Defense Appropriation Act, Apr. 5, 1941.
  30. Talley, "Logs," Jun. 21, 1941.
  31. Woodman, *The Army Corps of Engineers in Alaska*, p. 20.

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32. Talley, "Logs," Aug. 7, 1941; Aug. 19, 1941; Oct. 1, 1941.
33. Talley, "Logs," Apr. 5, 1942.
34. Talley, "Logs," Oct. 11, 1942.
35. Talley, "Logs," Nov. 20, 1942.
36. Bush, *Narrative Report of Alaska Construction*, p. 366.
37. Bush, *Narrative Report of Alaska Construction*, pp. 375-377; Talley, "Logs," Mar. 10, 1943.
38. Talley Interview, p. 109.
39. Talley, "Logs," Mar. 12, 1941.
40. Talley, "Logs," Mar. 17, 1941.
41. Talley, "Logs," Apr. 6, 1941.
42. Talley, "Logs," Apr. 16, 20, 1941.
43. Talley, "Logs," Apr. 27, 1941; Talley Interview, p. 10.
44. Talley, "Logs," Apr. 30, 1941.
45. Talley, "Logs," May 18, 1941.
46. Talley, "Logs," May 20, 1941.
47. Talley, "Logs," May 28, 29, 1941.
48. Talley, "Logs," Jul. 16, 1941.
49. Talley, "Logs," Jul. 19, 1941.
50. Talley, "Logs," Sept. 6, 1941.
51. Bush, *Narrative Report of Alaska Construction*, p. 198.
52. Talley, "Logs," Sept. 23, 1942.
53. Bush, *Narrative Report of Alaska Construction*, p. 306.
54. Jacobs, *History of the Alaska District*, pp. 17-18. See also Dod, *The Corps of Engineers: The War Against Japan*, pp. 318-328; 335-339. Dod notes that the decision to suspend operations of the crude oil pipeline and the refinery in April, 1945 reflected Canol's inability to supply more than a fraction of the North Pacific theater's gasoline needs.
55. Jacobs, *History of the Alaska District*, p. 18.

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56. Talley, "Logs," Apr. 26, 1942.
  57. Talley, "Logs," Aug. 4-Sept. 6, 1942.
  58. Talley, "Logs," Aug. 4-Sept. 6, 1942.
  59. Jacobs, *History of the Alaska District*, p. 18.
  60. Talley Interview, p. 111.
  61. Philip H. Godsell, *The Romance of the Alaska Highway* (Toronto: Ryerson Press, 1944), p. 111.
  62. Heath Twichell, *Northwest Epic: The Building of the Alaska Highway* (New York: St. Martin's Press, 1992), p. 54.
  63. Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 20.
  64. Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 36.
  65. Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 36.
  66. Lael Morgan, "Miles and Miles: Honoring Black Veterans Who Built the Alaska Highway," in *Alaska or Bust: The Promise of the Road North*, p. 69; John T. Greenwood, "Building the Road to Alaska," in *Builders and Fighters: U.S. Army Engineers in World War II*, Barry W. Fowle, ed. (Fort Belvoir, VA: Office of History, U.S. Army Corps of Engineers, 1992), pp. 121-122.
  67. Jacobs, *History of the Alaska District*, pp. 16-17; Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 20.
  68. Greenwood, "Building the Road to Alaska," pp. 125-126; see also Woodman, *The Army Corps of Engineers in Alaska*, p. 20.
  69. Jacobs, *History of the Alaska District*, p. 17.
  70. Quoted in Greenwood, "Building the Road to Alaska," p. 127, see also p. 126.
  71. Froelich Rainey, "Alaskan Highway an Engineering Epic," *National Geographic* (Feb. 1943), p. 152.
  72. Quoted in Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 27; see also Greenwood, "Building the Road to Alaska," pp. 129-130.
  73. Twichell, *Northwest Epic: The Building of the Alaska Highway*, p. 223.
  74. Quoted in Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 24.
  75. Jim Auchmutey, "Paving the Way: Black Troops from the South Pushed Aside Snow and Prejudice to Open a Highway to Alaska," *Atlanta Journal-Atlanta Constitution*, Sunday, June 21, 1992.
  76. Jim Auchmutey, "Paving the Way: Black Troops from the South Pushed Aside Snow and Prejudice to Open a Highway to Alaska," *Atlanta Journal-Atlanta Constitution*, Sunday, June 21, 1992, p. M4.

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77. Talley, "Logs," Nov. 27, 1942. Initially O'Connor was responsible for the three southern sections of the road. After Hoge's dismissal in late August, O'Connor assumed command of the entire project. See the discussion in Greenwood, "Building the Road to Alaska," pp. 119, 131-132.
78. Quoted in Morgan, "Miles and Miles: Honoring Black Veterans Who Built the Alaska Highway," p. 69.
79. Dod, *The Corps of Engineers: The War Against Japan*, p. 315. Dod rounds off the distance of the Alcan to 1,450 miles. John Greenwood cites the total built mileage as 1,543 miles and adds to this 142 miles of existing road for a total length of 1,685 miles. See Greenwood, "Building the Road to Alaska," p. 134.
80. Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 39.
81. Douglas Coe, *Road to Alaska: The Story of the Alaska Highway* (New York: Julian Messner, 1943), p. 174.
82. Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 35.
83. Corinne Walker, Interview with Lisa Mighetto, Nov. 10, 1993, Anchorage, Alaska. Hereinafter cited as Walker Interview.
84. Coe, *Road to Alaska: The Story of the Alaska Highway*, p. 275.
85. Cole, "Alaska or Bust: The Promise of the Alaska Highway," p. 39.

## Chapter IV

1. Talley Interview, p. 63.
2. Talley Interview, pp. 197-198.
3. Talley Interview, pp. 35-38, 273-274.
4. Conn et al., *Guarding the United States and Its Outposts*, p. 223.
5. D. Colt Denfeld, *Cold Bay in World War II: Fort Randall and Russian Naval Lend-Lease*, (Anchorage: U.S. Army Engineer District, 1988), p. 5; John D. Hicks, *Republican Ascendancy, 1921-1933* (New York: Harper and Row, 1960), pp. 40-49.
6. Conn et al., *Guarding the United States and Its Outposts*, p. 153; John Haile Cloe, *Top Cover for America: The Air Force in Alaska 1920-1983* (Missoula, Montana: Pictorial Histories Publishing Co., 1984.), p. 11.
7. Cloe, *Top Cover for America*, p. 11.
8. Jacobs, *History of the Alaska District*, p. 13.
9. Bush, *Narrative Report of Alaska Construction*, p. 77.
10. Bush, *Narrative Report of Alaska Construction*, pp. 77-81.
11. Bush, *Narrative Report of Alaska Construction*, pp. 420-421.

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12. Bush, *Narrative Report of Alaska Construction*, p. 127.
  13. Chandonnet, ed., *Alaska at War*, p. 62. Over 50 years later, during ceremonies on Shemya Island ("Shemya AFB's Final Dining Out," May 18, 1993), Talley finally collected on his bet, when the daughter of Colonel William Eareckson, Mrs. Sally Eareckson Kennerly, gave him a bottle of Moet champagne and paid tribute to Talley for his work building Alaskan airfields during World War II. See n. 10 on p. 64 in Chandonnet, *Alaska at War*.
  14. Talley, "Logs," May 20, 1942.
  15. Bush, *Narrative Report of Alaska Construction*, p. 422. Cold Bay's potential as a naval base had first been acknowledged in 1890, when the area was reserved for Navy purposes. The site investigation ordered by Admiral Chase in 1923 had also identified Cold Bay as an excellent site for a naval base.
  16. Denfeld, *Cold Bay in World War II*, pp. 5-6.
  17. Denfeld, *Cold Bay in World War II*, pp. 5-6.
  18. Denfeld, *Cold Bay in World War II*, p. 6.
  19. Bush, *Narrative Report of Alaska Construction*, p. 165.
  20. Bush, *Narrative Report of Alaska Construction*, p. 166.
  21. Chandonnet, ed., *Alaska at War*, p. 61.
  22. Denfeld, *Cold Bay in World War II*, pp. 13-14.
  23. Bush, *Narrative Report of Alaska Construction*, p. 68.
  24. Bush, *Narrative Report of Alaska Construction*, pp. 79-81.
  25. Talley, "Logs," Jun. 26, 1942; Bush, *Narrative Report of Alaska Construction*, p. 129.
  26. Bush, *Narrative Report of Alaska Construction*, p. 129.
  27. Bush, *Narrative Report of Alaska Construction*, p. 129.
  28. Bush, *Narrative Report of Alaska Construction*, pp. 128-129.
  29. Bush, *Narrative Report of Alaska Construction*, pp. 134-136. In succession, Resident Engineers Brigadier General E. W. Jones, Colonel F. S. Blinn, Lieutenant Colonel William H. Cromwell, and Lieutenant Walter W. Hodge directed the project at Fort Randall. Lester Troast served as the primary civilian engineer assistant.
  30. Bush, *Narrative Report of Alaska Construction*, p. 136.
  31. In the summer of 1943, the War Department reduced the authorized garrison strength at Fort Morrow, eliminating various components of the construction program.
  32. Bush, *Narrative Report of Alaska Construction*, pp. 165-166.

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33. Bush, *Narrative Report of Alaska Construction*, pp. 165-166.
34. Talley, "Logs," Sept. 8, 12, 1942.
35. Talley, "Logs," Sept. 12, 1942.
36. Bush, *Narrative Report of Alaska Construction*, pp. 190-191.
37. Bush, *Narrative Report of Alaska Construction*, p. 170; Talley, "Logs," Apr. 8-18, 1942.
38. Talley, "Logs," Jul. 9, 1942.
39. Bush, *Narrative Report of Alaska Construction*, pp. 156-157.
40. Bush, *Narrative Report of Alaska Construction*, pp. 157-158; Talley, "Logs," Jul. 14, 1942, Jul. 15, 1942.
41. Bush, *Narrative Report of Alaska Construction*, p. 171.
42. Talley, "Logs," Oct. 8, 1942. The Corps of Engineers operated several lumber mills in Alaska. Talley hoped to be cutting 100,000 M.B.F. per day in Alaska. If he could reach that goal he would not have to import lumber, thus producing a large savings for the Engineers' projects.
43. Bush, *Narrative Report of Alaska Construction*, pp. 170-172.
44. Talley, "Logs," Jan. 23, 1943.
45. Talley, "Logs," Mar. 1, 1943, Mar. 3, 1943.
46. Talley, "Logs," Jun. 24, 1942.
47. Talley, "Logs," Jun. 25, 1942, Jun. 26, 1942, and Jun. 27, 1942.
48. Talley, "Logs," Jul. 13, 1942.
49. Talley, "Logs," Jul. 24, 1942.
50. Talley, "Logs," Aug. 4-Sept. 6, 1942; Bush, *Narrative Report of Alaska Construction*, p. 178.
51. Talley, "Logs," Aug. 4, 1942.
52. Talley, "Logs," Aug. 4-Sept. 6, 1942.
53. Talley, "Logs," Sept. 3, 1942.
54. Talley, "Logs," Sept. 6, 1942.
55. Talley, "Logs," Sept. 14, 1942; D. Colt Denfeld, "The Battle of Attu," in Fowle ed., *Builders and Fighters: U.S. Army Engineers in World War II*, p. 367.

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56. Bush, *Narrative Report of Alaska Construction*, p. 180; Talley, "Logs," Oct. 20, 1942, Mar. 17, 1943; Denfeld, "The Battle of Attu," p. 367.
  57. Bush, *Narrative Report of Alaska Construction*, p. 179.
  58. Bush, *Narrative Report of Alaska Construction*, pp. 213-214.
  59. Bush, *Narrative Report of Alaska Construction*, p. 215.
  60. Talley, "Logs," Aug. 30, 1942.
  61. Talley, "Logs," Aug. 30, 1942. See also Chandonnet, ed., *Alaska at War*, pp. 62-63.
  62. Talley, "Logs," Aug. 30, 1942; Talley, "Logs," Apr. 29-Jun. 6, 1943.
  63. Bush, *Narrative Report of Alaska Construction*, p. 184.
  64. Bush, *Narrative Report of Alaska Construction*, pp. 185-186.
  65. Talley, "Logs," Sept. 8, 1942.
  66. Bush, *Narrative Report of Alaska Construction*, p. 193; Talley, "Logs," Sept. 10, 1942, Oct. 16, 1942.
  67. Talley, "Logs," Nov. 24, 1942.
  68. Talley, "Logs," Dec. 17, 1942.
  69. Talley, "Logs," Dec. 18, 1942.
  70. Talley, "Logs," Dec. 13-22, 1942.
  71. Talley, "Logs," Jan. 29-Feb. 3, 1943.
  72. Talley, "Logs," Jan. 15, Feb. 13, 1943; Bush, *Narrative Report of Alaska Construction*, p. 194.
  73. Talley, "Logs," Mar. 21, 1943.
  74. Bush, *Narrative Report of Alaska Construction*, pp. 194-195.
  75. Bush, *Narrative Report of Alaska Construction*, pp. 195-196.
  76. Bush, *Narrative Report of Alaska Construction*, p. 195.
  77. Talley, "Logs," Apr. 28, 1943.
  78. Talley, "Logs," Apr. 29-Jun. 6, 1943.
  79. Denfeld, "The Battle of Attu," pp. 373-374.
  80. Talley Interview, pp. 70, 173-175, 198.



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81. Denfeld, "The Battle of Attu," pp. 375-377.
82. Talley, "Logs," Apr. 29-Jun. 6, 1943.
83. Dod, *The Corps of Engineers: The War Against Japan*, p. 330.
84. Talley, "Logs," May 13, 1943; Talley Interview, p. 199.
85. Talley, "Logs," Apr. 29-Jun. 6, 1943.
86. Bush, *Narrative Report of Alaska Construction*, p. 201.
87. Bush, *Narrative Report of Alaska Construction*, p. 270.
88. Bush, *Narrative Report of Alaska Construction*, pp. 201-202; Denfeld, "The Battle of Attu," p. 378.
89. Talley, "Logs," Apr. 25, 1943.
90. Talley, "Logs," Apr. 29-Jun. 6, 1943.
91. Bush, *Narrative Report of Alaska Construction*, p. 205.
92. Fuel-storage facilities included space for 1,500,000 gallons of Air Corps gasoline, 3,150,000 gallons of fuel oil, and 357,000 gallons of Quartermaster gasoline.
93. Bush, *Narrative Report of Alaska Construction*, pp. 205-206.
94. Bush, *Narrative Report of Alaska Construction*, pp. 210-211.
95. Talley Interview, p. 195; Foreword, n.p.
96. Driscoll, *War Discovers Alaska*, p. 16.
97. In July 1943, the number of military personnel in Alaska reached a high of 152,000. See Coates, *The Trans-Alaska Pipeline Controversy*, pp. 71-72.

## Chapter V

1. Phil Morrow, Interview with Lisa Mighetto, Nov. 9, 1993, Anchorage, Alaska. Hereafter cited as Morrow Interview.
2. "Military to Expand Here," 1958, n.p., File: 228-10 Installation Historical Files, Accession No. 77-85-0042, Box 3, Records of the Army Corps of Engineers, Record Group [RG] 77, National Archives-Alaska Region, Anchorage, Alaska [NA-AR].
3. Rogers, *The Future of Alaska*, pp. 8-11.
4. Morrow Interview.
5. Bill Oakes, Interview with Lisa Mighetto, Anchorage, Nov. 8, 1993. Hereafter cited as Oakes Interview.

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6. U.S. House of Representatives, Committee of the Territories, "Official Trip to Conduct a Study and Investigation of the Various Questions and Problems Relating to the Territory of Alaska," February 15, 1946, *House Report* 1583, 79th Congress, 2d Session, serial 11022, pp. 1, 6, 18.
  7. Captain John J. Teal, Jr., "Alaska, Fulcrum of Power," *Foreign Affairs*, October, 1948, pp. 86, 90.
  8. Teal, Jr., "Alaska, Fulcrum of Power," pp. 92-93, 95.
  9. "Statement of Fergus Hoffman, Staff Correspondent, The *Seattle Post-Intelligencer*," reprinted in the *Congressional Record*, 81st Congress, 1st Session, July 15, 1949, vol. 95, pt. 7, pp. 9469-9470. See also comments on the Senate floor by Washington Senator Harry Cain. Senator Cain directed the Senate's attention to Hoffman's statement, adding his own view that "Alaska is a vast springboard from which an aerial bombardment of the continental United States could easily be undertaken. It lies virtually helpless today before a world picture that grows steadily more serious as the Soviet occupied countries of Europe and Asia slowly succumb to the Red tide." *Congressional Record*, 81st Congress, 1st Session, July 15, 1950, vol. 95, pt. 7, p. 9694.
  10. "Alaska — Another Pearl Harbor? An Interview with Ernest Gruening, Governor of Alaska," *U.S. News & World Report*, Nov. 18, 1949, pp. 32-36.

Other pro-statehood statements often equated granting statehood for Alaska with showing the free world that the United States was living according to its own democratic principles. President Dwight Eisenhower, for example, in a September 16, 1950 speech given in Denver, stated that admission to the union for both Hawaii and Alaska would demonstrate that "America practices what it preaches." Reprinted in the *Congressional Record*, 81st Congress, 2d Session, Nov. 30, 1950, vol. 96, pt. 12, p. 15986.
  11. "Tests of Arctic Warfare by U.S. and Soviet Russia," *U.S. News & World Report*, Oct. 4, 1946, pp. 20-21. U.S. training expeditions, such as "Operation Frigid," to test equipment and train soldiers under arctic conditions, occurred throughout the period between August, 1946, and April, 1947.
  12. "Alaska: Airman's Theater," *Time*, Nov. 6, 1950, p. 28.
  13. "Remarks by Brigadier General Elmer J. Rogers, Jr., United States Air Force, Director of Plans and Operations, Headquarters Alaskan Command," Appendix A, "Report of the Alaskan Task Force, Seventh Report of the Preparedness Subcommittee of the Committee on Armed Services," U.S. Senate, March 1, 1951, *Senate Document* 10, 82d Congress, 1st Session, serial 11503, p. 46; Jonathan M. Nielson, *Armed Forces on a Northern Frontier: The Military in Alaska's History, 1867-1987*, Contributions in Military Studies, No. 74 (New York: Greenwood Press, 1988), p. 182; Woodman, *The Army Corps of Engineers in Alaska*, p. 27. The concept of a unified command also formed the heart of the National Security Act of 1947.
  14. Nielson, *Armed Forces on a Northern Frontier*, p. 182.
  15. David Lawrence, "There is No Peace," *U.S. News & World Report*, Aug. 30, 1946. See John Lewis Gaddis, *The United States and the Origins of the Cold War, 1941-1947* (New York: Columbia University Press, 1972), for a compelling discussion of these causes.
  16. "Alaska: Our Next State? Bolstering Arctic Frontier," *U.S. News & World Report*, Sep. 13, 1946, p. 19.
  17. Colonel James Lang to Commanding General, Alaskan Department, Feb. 1, 1946, quoted in Jacobs, *History of the Alaska District*, p. 22.

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18. Colonel Theron D. Weaver, North Pacific Division Engineer to Chief of Engineers, Mar. 22, 1946, quoted in Jacobs, *History of the Alaska District*, p. 22.
19. Colonel Charles G. Holle, Corps of Engineers, Executive Officer, "General Order No. 6," April 9, 1946, copy attached to a Ten-Year Retrospective, in Folder: Corps of Engineers in Alaska, 1956, File: 228-10 Installation Historical Files, Accession no. 77-85-0042, Box 3, Records of the Army Corps of Engineers, RG 77, NA-AR.
20. Jacobs, *History of the Alaska District*, p. 23.
21. "Corps of Engineers Celebrates 40," *Alaska Journal of Commerce and Pacific Rim Reporter*, June 2, 1986, p. 17.
22. Lyman Woodman manuscript, "Military Construction," Folder: History of Alaska District, File: Installation Historical Files ca. 1971, Alaska District, Records of the Army Corps of Engineers, RG 77, NA-AR.
23. Morrow Interview.
24. Aurora Loss, Telephone Interview with Lisa Mighetto, Camarillo, California, and Seattle, October 2, 1995. Hereafter cited as Loss Interview.
25. "District Memorandum No. 198," Nov. 28, 1947, Folder: Numbered District Memorandums for 1947, File: Organization Plans, Programs, Progress Reports, Publications, 1946-1962, Elmendorf Air Force Base, Alaska District, Box 11, Records of the Army Corps of Engineers, RG 77, NA-AR. See also Walter LaFeber's discussion in *America, Russia, and the Cold War, 1945-1971*, second edition (New York: John Wiley and Sons, Inc., 1972), p. 59.
26. Minutes of Staff Conference, Aug. 28, 1947, Folder: DE Staff Conferences, 1947, File: Organization Plans, Programs, Progress Reports, Publications, 1946-1962, Elmendorf Air Force Base, Alaska District, Box 11, Records of the Army Corps of Engineers, RG 77, NA-AR.
27. "District Memorandum No. 173," Sep. 26, 1947, Folder: Numbered District Memorandums for 1947, File: Organization Plans, Programs, Progress Reports, Publications, 1946-1962, Elmendorf Air Force Base, Alaska District, Box 11, Records of the Army Corps of Engineers, RG 77, NA-AR. The memorandum itself is printed on both sides of the paper.
28. Loss Interview.
29. "Alaska: Airman's Theatre," *Time*, Nov. 6, 1950, p. 28. See also "Current Military Construction in Alaska," ca. Feb. 1951, Folder: Corps of Engineers In Alaska, 1951-1952, File: 228-10 Installation Historical Files, Accession no. 77-85-0042, Box 6, Records of the Army Corps of Engineers, RG 77, NA-AR.
30. Staff Conference minutes, June 19, 1947, Folder: DE Staff Conferences, 1947, File: Organization Plans, Programs, Progress Reports, Publications, 1946-1962, Elmendorf Air Force Base, Alaska District, Box 1, Records of the Army Corps of Engineers, RG 77, NA-AR. See also Jacobs, *History of the Alaska District*, pp. 26-27. In 1950, the post was divided into Fort Richardson and Elmendorf Air Force Base.
31. Staff Conference minutes, June 19, 1947, Folder: DE Staff Conferences, 1947, File: Organization Plans, Programs, Progress Reports, Publications, 1946-1962, Elmendorf Air Force Base, Alaska District, Box 1, Records of the Army Corps of Engineers, RG 77, NA-AR; Jacobs, *History of the Alaska District*, p. 27. On

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January 1, 1961, Ladd Air Force Base was transferred to the Army and renamed Fort Wainwright.

32. Staff Conference minutes, June 19, 1947, Folder: DE Staff Conferences, 1947, File: Organization Plans, Programs, Progress Reports, Publications, 1946-1962, Elmendorf Air Force Base, Alaska District, Box 1, Records of the Army Corps of Engineers, RG 77, NA-AR; Jacobs, *History of the Alaska District*, p. 27. Jacobs likened the Mile 26 Project to the construction of "a small city."

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37. "Contractual Methods Used on Military Construction in Alaska," Appendix C, "Report of the Alaskan Task Force, Seventh Report of the Preparedness Subcommittee of the Committee on Armed Services," U.S. Senate, March 1, 1951, *Senate Document* 10, 82d Congress, 1st Session, serial 11503, p. 57. See also Jacobs, *History of the Alaska District*, p. 26.

38. Ten-Year Retrospective, Folder: Corps of Engineers in Alaska, 1956, File: 228-10 Installation Historical Files, Accession no. 77-85-0042, Box 3, Records of the Army Corps of Engineers, RG 77, NA-AR; G. M. Dorland, Lt. Col., Corps of Engineers, Acting District Engineer, Alaska District, "Memorandum for Mr. Justice Chambers, for Use of Subcommittee of Senate Armed Services Committee," Oct. 9, 1950, Appendix C, "Report of the Alaskan Task Force, Seventh Report of the Preparedness Subcommittee of the Committee on Armed Services," U.S. Senate, March 1, 1951, *Senate Document* 10, 82d Congress, 1st Session, serial 11503, pp. 54-55.

39. William E. Potter, *Engineer Memories*, Office of the Chief of Engineers, U.S. Army Corps of Engineers, 1983, pp. 48, 83. This manuscript is produced from interviews conducted by Martin Reuss of the Historical Division, Office of the Chief of Engineers, with Major General William E. Potter, in Orlando, Florida, in February, 1981.

40. Jacobs, *History of the Alaska District*, p. 28. Jacobs quotes the Chief of Engineer's June 18, 1948 letter to the North Pacific Division.

41. Potter, *Engineer Memories*, p. 83.

42. "Prospectus of Construction to be Accomplished in 1948-1949," Technical Library, Alaska District, Anchorage, Alaska.

43. Quoted in Nielson, *Armed Forces on a Northern Frontier*, p. 184.

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44. Reprinted in the *Congressional Record*, Appendix, vol. 96, pt. 14, p. A2418.
45. "Report of the Alaskan Task Force, Seventh Report of the Preparedness Subcommittee of the Committee on Armed Services," U.S. Senate, March 1, 1951, *Senate Document* 10, 82d Congress, 1st Session, serial 11503, p. 1.
46. "Report of the Alaskan Task Force, Seventh Report of the Preparedness Subcommittee of the Committee on Armed Services," U.S. Senate, March 1, 1951, *Senate Document*, 10, 82d Congress, 1st Session, serial 11503, p. 8.
47. "Report of the Alaskan Task Force, Seventh Report of the Preparedness Subcommittee of the Committee on Armed Services," U.S. Senate, March 1, 1951, *Senate Document* 10, 82d Congress, 1st Session, serial 11503, pp. 10-11. The task force also concluded that CPFF contracting had significantly contributed to high construction costs, see p. 7.
48. Jacobs, *History of the Alaska District*, p. 29. See also "District's 20 Years," press release, Folder: Corps of Engineers in Alaska, 1966, File: 228-10 Installation Historical Files, Accession no. 77-85-0042, Box 10, Records of the Army Corps of Engineers, RG 77, NA-AR.
49. Nielson, *Armed Forces on a Northern Frontier*, pp. 180-181.
50. "Report of the Alaskan Task Force," March 1, 1951, *Senate Document* 10, 82d Congress, 1st Session, serial 11503, pp. 23, 37.
51. Sen. Lyndon B. Johnson to Sen. Richard Russell, Chairman, Senate Committee on Armed Services, Feb. 13, 1951, transmitting "Report of the Alaskan Task Force," p. iii.

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2. Rogers, *The Future of Alaska*, p. 233.
3. Craig Smyser, Lieutenant Colonel, Corps of Engineers, "General Order no. 12," Sep. 27, 1949, copy in Appendix C in Woodman's *The Army Corps of Engineers in Alaska*, p. 209; District Engineer Colonel William E. Potter, "Information Bulletin Number 1," Mar. 28, 1949, Folder: Corps of Engineers in Alaska, 1948-1949, File: 228-10 Installation Historical Files, Accession no. 77-85-0042, Box 6, Records of the Army Corps of Engineers, RG 77, NA-AR.
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5. "Statehood for Alaska, Message from the President of the United States, relative to Enactment of Necessary Legislation to Admit Alaska to Statehood at the Earliest Possible Date," May 21, 1948, *Senate Document* 159, 80th Congress, 2d Session, serial 11221, pp. 2-3.

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  18. Jacobs, *History of the Alaska District*, pp. 78-82.
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26. Alaska District, Final Environmental Impact Statement, "Operation and Maintenance of the Dillingham Small Boat Harbor, Dillingham, Alaska," June, 1974, pp. 6-7. Ocean-going vessels must still anchor offshore.
27. Alaska District, Final Environmental Impact Statement, "Operation and Maintenance of the Dillingham Small Boat Harbor, Dillingham, Alaska," June, 1974, p. 9.
28. Alaska District, Final Environmental Impact Statement, "Operation and Maintenance of the Dillingham Small Boat Harbor, Dillingham, Alaska," June, 1974, pp. 8-9. See also Alaska District, "Water Resources Development by the U.S. Army Corps of Engineers in Alaska," Jan. 1, 1977, p. 11.
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31. Alaska District, Final Environmental Impact Statement, "Operation and Maintenance of the Homer Small Boat Harbor, Homer, Alaska," March, 1974, p. 9; Alaska District, "Water Resources Development by the U.S. Army Corps of Engineers in Alaska," Jan. 1, 1977, p. 14. See also "Homer Spit Restored," press release, Jan. 19, 1965, Folder: Homer Reconstruction Progress, April, 1964, File: 228-10 Installation Historical Files, Accession no. 77-85-0042, Box 19, Records of the Army Corps of Engineers, RG 77, NA-AR.
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40. For a discussion of this economic impact, see Alaska District, "Review of Reports on Sergius and Whitestone Narrows, Alaska," Nov., 1967, pp. 4-5.
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5. The 6th Light Infantry Division was activated on March 23 and 24, 1986. The combat lineage of the division develops from its original activation Nov. 17, 1917, at Fort McClellan, Alabama. During World War II, the division was deployed to Europe and fought in the Alsace and Meuse-Arbonne campaigns and in the Pacific Theater. Throughout the Korean War, the 6th Light Infantry Division served as a training unit. The division was activated, but not deployed, during the Vietnam War. See Beth Barrett, "General Lauds Light Infantry Division," *Anchorage Times*, May 6, 1986, Alaska District, Public Affairs, LID File.
6. John L. Romjue, *The Army of Excellence: The Development of the 1980s Army*, TRADOC Historical Monograph Series, (Fort Monroe, Virginia: Office of the Command Historian, United States Army Training and Doctrine Command, 1993), pp. 69-70.
7. Romjue, *The Army of Excellence*, p. 72. The selection of Fort Wainwright as one of the posts where the 6th Light Infantry Division would reside also meant that the Army was committed to providing facilities and housing for the increases in military personnel. Romjue also notes Alaska Senator Ted Stevens' influence as a factor in the choice of the Alaskan locations.
8. Editorial, *Anchorage Times*, Apr. 23, 1984, Alaska District, Public Affairs, Clipping Files, Apr./May, 1984; see also Nielson, *Armed Forces on a Northern Frontier*, pp. 203-204.
9. Maj. Gen. Johnny H. Corns, quoted in "General: Alaska Makes Better Soldiers," *Peninsula Clarion*, Jul. 8, 1987, Alaska District, Public Affairs, Clipping Files, Jul. 1987.
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12. Bob Peterson, "State Still Leans on Defense Dollars," *Anchorage Times*, May 25, 1986, Alaska District, Public Affairs, Clipping Files, May 1986.
13. Jack Dolan, "\$770 Million Going to State," *Fairbanks Daily News-Miner*, Dec. 23, 1987, Alaska District, Public Affairs, Clipping Files, Oct./Dec. 1987. See also Jack Dolan, "Senate Panel Passes Alaska Appropriation," *Anchorage Times*, Oct. 16, 1987, Alaska District, Public Affairs, Clipping Files, Oct./Dec., 1987 and "Information Sheet," Jan. 1987, US Army Corps of Engineers, Alaska District.

During fiscal year 1987, as reported in the *Alaska Journal of Commerce*, the Army Corps of Engineers spent \$214 million on "goods, services, payroll and construction contracts." This figure does not include the 801 (a reference to Section 801 of the 1984 Military Construction Appropriations Act) build-to-lease housing project at Fort Wainwright, where 400 units of two-story townhouses were completed that year. See "Corps' Spending Sets New Record," *Alaska Journal of Commerce*, Nov. 23, 1987, Alaska District, Public Affairs, Clipping Files, Nov. 1987.
14. For a discussion of the new emphasis on "quality of life benefits," see *Historical Summary: Fiscal Year 1985* (U.S. Army Center of Military History, 1989), pp. 19-20. These changes reflected the Army Family Action Plan, which grew out of the Army Chief of Staff's August 1983 paper on "the Army family." Benefits included additional and improved child care facilities; increased support for handicapped family members and family safety programs; greater support for Army community service centers; and improved housing.
15. News Release no. 409, Oct. 8, 1976, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases, no. 380 (Aug. 1976) to no. 471 (Apr. 1977). Construction costs totaled \$3,341,000.
16. John Haile Cloe, with Michael F. Monaghan, *Top Cover For America: The Air Force in Alaska, 1920-1983* (Anchorage: Anchorage Chapter - Air Force Association and Missoula, Montana: Pictorial Histories Publishing Co., 1984), pp. 239-240. The first of the modernized radar sites was "Seek Igloo," begun in 1975. General Electric developed the new radar, AN/FPS-117 Minimally Attended Radar. There was a total of 13 MAR sites; those near towns or Air Force installations required even less personnel than the remote stations, where separate maintenance of runways and facilities was necessary. By terms of a 1977 contract with RCA Services, civilian technicians operated and maintained the support services at the MAR sites.
17. These four radar sites were also part of the original White Alice Communications System. For a discussion of their early air defense functions, see Reynolds, "Historical Overview and Inventory: White Alice Communications System."
18. "MARS Phase I Status Report," n.d., Alaska District, Public Affairs, MAR File; "Corps Awards Largest Contract of Fiscal Year," News Release no. 82-27, Aug. 12, 1982, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases, Feb. 17, 1982-Jan. 6, 1983; "M-K to Work on MARS," *Alaska Journal of Commerce*, Aug. 30, 1982, Alaska District, Public Affairs, Clipping Files, Aug.-Sep. 1982.

In addition to construction of the twin-domes at these four remote sites, the MAR project also consisted of renovating and upgrading eight other sites of the Air Force Aircraft Control and Warning system under separate contracts. These included: Cape Newenham; Galena; Fort Yukon; Murphy Dome; Cape Lisburne; Kotzebue; Tin City; and Cold Bay. See "MAR Phase II," Information Sheet, Jun. 22, 1983, Alaska District, Public Affairs, Military File.
19. See "Alaska MAR Support Facilities," *The Em-Kayan Magazine*, Jan., 1984, Corps of Engineers, Alaska District, Public Affairs, MAR File.

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20. "Twin Domes Win Defense Department Awards," News Release no. 89-16, Jul. 16, 1986, Alaska District, Public Affairs, Clipping Files, Jul./Aug. 1984; Evey Ruskin, "Domes of the Future Exist Now," *Anchorage Daily News*, Aug. 26, 1984, Alaska District, Public Affairs, Clipping Files, Jul./Aug. 1984.
21. Quoted by Ruskin, "Domes of the Future."
22. Ruskin, "Domes of the Future"; Untitled design description, Alaska District, Public Affairs, MAR File, n.d. Most of the specific, technical design features are described in this source.
23. Both quoted in Ruskin's "Domes of the Future."
24. "Twin Domes." See also "Air Force Alaska Twin Dome Radar Sites Win Award," *Alaska Journal of Commerce & Pacific Rim Reporter*, week of Aug. 11, 1986, p. 33, Alaska District, Public Affairs, Clipping Files, July 1986.
25. Telephone conversation, Lisa Mighetto in Seattle, and Colt Denfeld in Anchorage, December 27, 1995.
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27. Bob Ortega, "Shemya Houses 'Star Wars' Program," *Anchorage Times*, Dec. 6, 1987, Alaska District, Public Affairs, Clipping Files.
28. Ramseur, "Alaska's Defensive Role."
29. Wayne Biddle, "Army Plans to Build Rocket Site at Shemya," *The New York Times*, n.d., Alaska District, Public Affairs, Clipping Files, Apr./May 1984.
30. Wilbur T. Gregory, Jr., Alaska District Engineer, *Alaska Construction & Oil Magazine*, Jan. 1986, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases.
31. "Corps Spending May Top \$200 Million"; "Congress OK's Funds for Military Construction," *Anchorage Daily News*, Oct. 29, 1989, Alaska District, Public Affairs, Clipping Files, Oct. 1989. See also "State Nabs Big Bucks for Military Building," *Alaska Journal of Commerce*, Oct. 23, 1989, Alaska District, Public Affairs, Clipping Files, Oct. 1989.
32. Untitled, n.d., Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases, Jan. 1990-Dec. 31-1990.
33. Daniel R. Saddler, "Permafrost Holds Up Backscatter," *Anchorage Times*, Nov. 6, 1989, Alaska District, Public Affairs, Clipping Files, Nov. 1989. See also "Over-The-Horizon Backscatter Alaskan Radar System," U.S. Air Force Fact Sheet, n.d., Alaska District, Public Affairs, Military File. Other Backscatter projects are located in Maine and Oregon.
34. Daniel R. Saddler, "Air Force Reduces Backscatter Project," *Anchorage Times*, Nov. 8, 1989, Alaska District, Public Affairs, Clipping Files, Nov. 1989.
35. Saddler, "Backscatter Project."



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37. Reynolds, "Historical Overview and Inventory: White Alice Communications System," pp. 12-13, 55.
38. News Release no. 315, Apr. 29, 1976, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases, no. 273 (3 Mar. 1976) to no. 379 (13 Aug. 1976). See also "Dormitories To Be Built," *Anchorage Times*, May 4, 1976, Alaska District, Records Center, Box Q3D1, 228-10 Installation History Files, News Clippings, Jan. 1976-Jun. 1976.
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40. "Alaska: Facts You Need to Know," Pamphlet no. 608-9, (Washington: Headquarters, Dept. of the Army, Jun. 14, 1974), pp. 8-9.
41. Romjue, *The Army of Excellence*, p. 73. See also *Historical Summary*, p. 20. By 1986, members of the Air Force and their families at Eielson Air Force Base had started moving into their 801 housing project "Cool Home." Construction of this 300-unit complex began in May 1985. Design criteria included provisions to create comfortable, private, and energy-efficient homes that could withstand the rigors of cold Fairbanks winters. Each home had wall-to-wall carpets, drapes, a dishwasher and garbage disposal, bulk storage areas, and heated garages. The 52-acre site contained six major recreational areas and many playgrounds. Project contractor was Ben Lomond Inc. of Fairbanks; the complex was designed by architects McCool and McDonald of Anchorage. See *Fairbanks Daily News-Miner*, May 11, 1986, Alaska District, Public Affairs, Clipping Files, May 1986.
42. "Corps Selects Fairbanks Firm to Build 400-Unit Family Housing at Ft. Wainwright," News Release no. 85-28, Jan. 2, 1986, Alaska District, Public Affairs, File: 801 Housing. The Corps requested proposals as early as March 1985. Advance letters had been sent to over 700 contractors and subcontractors in January of that year. The Alaska District coordinated the selection process and negotiated the lease agreement with North Star Alaska Housing Corporation, which was given 540 days to complete the project. North Star in turn hired several subcontractors. See also "Corps Calls for Proposals to Build Housing at Fort Wainwright," News Release no. 85-7, Mar. 29, 1985, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases, 85-1 (Jan. 1985)-85-27 (Dec. 31, 1985).
43. "Fort Wainwright Family Housing Project Site Work Cleared by Corps," News Release no. 86-13, Jul. 9, 1986, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases.
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51. "Moratorium on Military Construction Affects Alaska Projects," News Release no. 90-3, Jan. 29, 1990, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases, 1990; John M. Broder, "207 Military Projects Put on Hit List," *Los Angeles Times*, Alaska District, Public Affairs, Clipping Files, 1990. Also see *Anchorage Daily News*, May 2, 1990, Alaska District, Public Affairs, Clipping Files, 1990.
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57. "Why Are The Ducks Dying?" *Anchorage Times*, Oct. 2, 1988, Alaska District, Public Affairs, Clipping Files, Oct. 1988.
58. Steven Rinehart, "Report Links Army Shells to Bird Deaths," *Anchorage Daily News*, Feb. 8, 1990, Alaska District, Public Affairs, Clipping Files, Feb. 1990. See also Charles H. Racine, et al., U.S. Army Cold Regions Research And Engineering Laboratory (CRREL) and Dartmouth Medical School, "Waterfowl Mortality in Eagle River Flats, Alaska: The Role of Munition Compounds," Final Report to U.S. Army Toxic and Hazardous Material Agency (Jan. 1991), pp. iii, 4, 74.
59. Quoted in "Wildlife Official Requests Army Abandon Range," *Anchorage Daily News*, Sep. 26, 1990, Alaska District, Public Affairs, Clipping Files, Sept. 1990.
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76. Pagano, "Culprit in Deaths."
77. "Eagle River Flats - Bird Mortality," Briefing Statement, Jul. 10, 1991, Eagle River Flats-Briefing Statements, Personal Files, Anchorage Field Office, U.S. Fish and Wildlife Service.
78. "Waterfowl Mortality on Eagle River Flats," Briefing Statement, Jul. 23, 1993.
79. Janet A. McDonnell, *The U.S. Army Corps of Engineers Response to the Exxon Valdez Oil Spill*, (Fort Belvoir, Virginia: Office of History, United States Army Corps of Engineers, 1992), p. 14.

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## Chapter XII

1. "Everything You Wanted to Know About the Defense Clean Up Program — and More," News Release no. 85-14, Jun. 15, 1985, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases, 1985; Charles Hendricks, "Cleanup in the Aleutians," *Engineer* 21 (July 1991), p. 61. The acronym, DERF, for Defense Environmental Restoration Fund, is also used in documentation of the program. The Dec. 8, 1983 Defense Appropriations Act initiated the program by providing the funding. In 1986, Section 211 of the Superfund Amendments and Reauthorization Act (SARA) statutorily established DERP.
2. "Corps Awards Contracts to Cleanup Former Military Sites," Oct. 4, 1984, News Release no. 84-47, Alaska District, Public Affairs.
3. Pat Richardson, "Alaskan Cleanup," *Engineer Update*, Oct. 1985, Alaska District, Public Affairs, Clipping Files.
4. Senator Ted Stevens, "Fund Will Help Heal Scars that War Left In Our State," *All-Alaska Weekly*, Aug. 30, 1985, Alaska District, Public Affairs, Clipping Files, Aug./Sep. 1985.
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8. Tetra Tech, Report for Alaska District, "Working Draft Environmental Impact Statement for World War II Debris Removal and Cleanup: Aleutian Islands and Lower Alaska Peninsula, Alaska," Aug. 15, 1979, p. 2, Alaska District, Technical Library.
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37. "Corps to Cleanup Former Military Sites," Jun. 22, 1984, News Release no. 84-18, Alaska District, Public Affairs, DERA News Releases.
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39. "Corps Military Cleanup Program Shifts Emphasis to Toxic and Hazardous Material," Aug. 26, 1986, News Release no. 86-18, Alaska District, Public Affairs, DERA News Releases.
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45. Quoted in "Landmark Ship to Stay," *Kodiak Daily Mirror*, June 27, 1986, Alaska District, Public Affairs, Clipping Files, June 1986. See also Frank Byrt, "Landmark May Be Removed by Army Engineers," *Kodiak Daily Mirror*, June 18, 1986, Alaska District, Public Affairs, Clipping Files, June 1986.
46. "Corps Focusing On Toxic Clean Up," *The Barrow Sun*, Nov. 13, 1986, Alaska District, Public Affairs, Clipping Files, Nov. 1986.
47. "Fact Sheet: Defense Environmental Restoration Program (DERP), Alaska District, Corps of Engineers," May 10, 1989, p. 1, Alaska District, Public Affairs, DERA News Releases.
48. "Fact Sheet," pp. 1-2.
49. "Everything You Wanted to Know."
50. Dan Crevensten and Pat Richardson, "Defense Clean Up Program," *Alaska Construction and Oil Magazine*, Aug., 1985, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases, 1985.
51. "Corps Awards Three Contracts to Clean Up Military Debris," News Release no. 85-23, Oct. 2, 1985, Alaska District, Public Affairs, 850-5a, Organizational History Files, News Releases, 1985.
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53. "Corps Charged for Guides in Cleanup," *Daily Sitka Sentinel*, Jan. 28, 1986, Alaska District, Public Affairs, Clipping Files, Jan. 1986.
54. "Corps of Engineers Terminates St. Lawrence Clean Up Contract," News Release no. 86-7, April 11, 1986, Alaska District, Public Affairs, DERA News Releases.
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56. "Alaska District Defense Environmental Restoration Program." See also "Environmental Assessment: Defense Environmental Restoration Program, Nome Area Sites, Alaska," Public Notice no. ER 91-05, Dec. 3, 1990, Alaska Resources Library, Anchorage, Alaska.

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58. "Hazardous and Toxic Waste Management."
59. "Army Expands Cleanup of Old Defense Sites," *Peninsula Clarion*, Jul. 29, 1986, Alaska District, Public Affairs, Clipping Files, July 1986.
60. For a fuller discussion of "Project Chariot," see Coates, *The Trans-Alaska Pipeline Controversy*, p. 112.
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67. John Keeble, *Out of the Channel: The "Exxon Valdez" Oil Spill in Prince William Sound* (New York: HarperCollins Publishers, 1991), p. 37.
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69. Alaska District, "Alaska 1989 Oil Spill," p. 3; Keeble, *Out of the Channel*, p. 25; Jerald L. Schnoor, "The Alaska Oil Spill: Its Effects and Lessons," *Environmental Science & Technology* (Jan. 1991), p. 14.
70. McDonnell, *Response to the "Exxon Valdez"*, pp. 4-5; Keeble, *Out of the Channel*, pp. 19-20, 54; Pain, "Alaska Has Its Fill of Oil," p. 35; Stanton S. Miller, "In a Faraway State," *Environmental Science & Technology* (Sep. 1990), p. 1287.

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72. McDonnell, *Response to the "Exxon Valdez"*, pp. 7-8, 49.
73. Schnoor, "The Alaska Oil Spill: Its Effects and Lessons," p. 14.
74. McDonnell, *Response to the "Exxon Valdez"*, p. 16.
75. Keeble, *Out of the Channel*, p. 95.
76. McDonnell, *Response to the "Exxon Valdez"*, pp. 12-13; Keeble, *Out of the Channel*, p. 63. By 1991, Exxon's costs reached \$2 billion.
77. Kelso and Kendziorek, "Alaska's Response to the *Exxon Valdez* Oil Spill," p. 17. Exxon had succeeded in burning between 15,000 and 30,000 gallons of oil, less than .27 per cent of the spill. Timing is crucial in burning as a remedy: too soon and there is a threat of explosions; too late and the volatile components in the oil have evaporated. See also McDonnell, *Response to the "Exxon Valdez"*, pp. 6-7.
78. McDonnell, *Response to the "Exxon Valdez"*, p. 6; Miller, "In a Faraway State," p. 1287.
79. McDonnell, *Response to the "Exxon Valdez"*, pp. 37-39; See also "Dredges Prove Their Worth in Frigid Alaskan Waters," *Oil Spill Special Edition, Esprit de Corps* (Jan. 1990), p. 5.
80. McDonnell, *Response to the "Exxon Valdez"*, p. 40; Dawn Edwards, "Corps' Dredges Innovate to Collect Oil in Valdez Spill," News Release no. 89-14, May 11, 1989; "Oil Spill Clean Up Work Sucks," *Cordova Times*, May 11, 1989; "Dredges Prove Their Worth," p. 5; "Alaska 1989 Oil Spill," p. 1.
81. "Dredges Prove Their Worth," p. 5; McDonnell, *Response to the "Exxon Valdez"*, p. 38.
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85. Quoted in McDonnell, *Response to the "Exxon Valdez"*, p. 71. See also *International Dredging Review* (Jun. 1989), p. 7.
86. McDonnell, *Response to the "Exxon Valdez"*, pp. 20-21; "Crisis Management Team Directs Oil Spill Response," *Esprit de Corps*, Jan. 1990, pp. 1, 20. Merv Mullins served as Emergency Management Section Chief, Arnold Nash supervised the Emergency Operations Center as assistant to Mullins. Crisis Management Team members included Lt. Col. Roy Carlson, Kirk Shadrick, Maj. Dean Dickey II, Harlan "Hod" Moore, Claude Vining, Chuck Bickley, George Livingston, Tony McCauley, Tom Carter, Jack Hammond, Dennis Klein, Abbe Dunning, Bob Gilliland, John Killoran, Steve Boardman and Mullins.
87. McDonnell, *Response to the "Exxon Valdez"*, pp. 43-48.

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88. McDonnell, *Response to the "Exxon Valdez"*, p. 21. The Regional Response Team, one of thirteen nationwide with geographically designated zones of jurisdiction, was a component in the National Contingency Plan for all large crises on the magnitude of the *Exxon Valdez* oil spill. The Joint Task Force, activated by Defense Department officials on April 7, represented all branches of the armed forces and the Corps.

89. Pat Richardson, "'Un-natural' Disaster Triggers Longest Emergency Operation," *Esprit de Corps*, Jan. 1990, pp. 3, 20. For a discussion of OSCAR, see "Computer Programs Link Corps to Joint Task Force Information," *Esprit de Corps*, Jan. 1990, p. 8.

90. McDonnell, *Response to the "Exxon Valdez"*, pp. 21, 63. See also "Alaska 1989 Oil Spill," p. 44.

91. McDonnell, *Response to the "Exxon Valdez"*, pp. 47-48; "Engineers Assess Beach Cleaning, Oil Incinerating Methods," *Esprit de Corps*, Jan. 1990, p. 13.

92. McDonnell, *Response to the "Exxon Valdez"*, pp. 90-91.

93. McDonnell, *Response to the "Exxon Valdez"*, pp. 97-99.

94. McDonnell, *Response to the "Exxon Valdez"*, pp. 90-91.

95. Miller, "In a Faraway Land," p. 1288.

## ***Epilogue***

1. Coates, *The Trans-Alaska Pipeline Controversy*, p. 19.

2. Benjamin B. Talley and Virginia M. Talley, "Building Alaska's Defenses in World War II," in Chandonnet, ed., *Alaska at War, 1941-1945: The Forgotten War Remembered*, p. 65.