### Status of Davis-Besse Lessons Learned Task Force Recommendations Last Update: August 31, 2005

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
3.1.1(1)	Assemble foreign and domestic information concerning Alloy 600 (and other nickel based alloys) nozzle cracking and boric acid corrosion. Analyze nickel based alloy nozzle susceptibility to stress corrosion cracking (SCC), including other susceptible components, and boric acid corrosion of carbon steel, and propose a course of action and an implementation schedule to address the results.	High	SCC	Complete	<del>TBD</del> Not Required	RES (DET) for data collection NRR (DE) for other actions			
test progra Reactor P susceptibi	STATUS: Data collection was accomplished in two phases. Collection of information on cracking was completed 03/31/04 (, ML040910354). A test program on boric acid corrosion was completed on 10/22/04 and was published in NUREG/CR-6875, "Boric Acid Corrosion of Light Water Reactor Pressure Vessel Material" (ML050410026). The information contained in these two reports and a third report on Alloy 600 cracking susceptibility (ML032461221), which was issued on 3/31/04 to address LLTF 3.1.4(1), have been compiled in NUREG-1823, "U.S. Plant Experience with Alloy 600 Cracking and Boric Acid Corrosion of Light-Water Reactor Pressure Vessel Materials" (ML050390139).								
cracking ( set of info problem. proposed	Experience with Alloy 600 Cracking and Boric Acid Corrosion of Light-Water Reactor Pressure Vessel Materials" (ML050390139). Based on the reports, the staff concluded that additional inspections are warranted for identifying leakage from primary water stress corrosion cracking (PWSCC) and for precluding boric acid corrosion as a result of such through-wall leakage. The RES reports provide a comprehensive set of information that supports and confirms the appropriateness of these conclusions and does not change the staff's basic perception of the problem. The staff concluded that definitive actions are needed to address shortcomings with the current framework for these inspections and proposed a plan and schedule for accomplishing them. This completed the LLTF recommendation. Actions to implement the plan are being tracked through an NRR action plan that addresses stress corrosion cracking and boric acid corrosion issues.								

#### Category: Stress Corrosion Cracking

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
3.2.2(1)	Inspect the adequacy of PWR [pressurized-water reactor] plant boric acid corrosion control programs, including their implementation effectiveness, to determine their acceptability for the identification of boric acid leakage, and their acceptability to ensure that adequate evaluations are performed for identified boric acid leaks.	High	SCC	<del>05/05</del> Complete	05/06	NRR (IIPB)		
plants, de summariz be enhand Subseque Temporar (RPV) hea Procedure BACC. S current pr adequate effectiven	STATUS: The evaluation of responses to Bulletin 2002-01, which included audits of boric acid corrosion control (BACC) programs at five plants, determined that plants appeared to be complying with requirements at the programmatic level. The results of the evaluation were summarized in Regulatory Issues Summary (RIS) 2003-13 (ML032100653). The RIS concluded that existing monitoring programs may need to be enhanced to ensure early detection and prevention of leakage from the RCPB and provided suggestions for improving existing programs. Subsequent inspections conducted at all operating reactor plants have reviewed licensee BACC programs using new inspection guidelines. Temporary Instruction (TI) 2515/150, issued on October 18, 2002, which provides guidance for inspecting licensees' reactor pressure vessel (RPV) head inspections pursuant to Order EA-03-009, also includes instructions for follow-up on findings of boric acid accumulation. Inspection Procedure (IP) 71111.08, "Inservice Inspection Activities," was revised on 5/11/04 to add periodic inspection requirements and guidance for BACC. Staff review of inspection results from TI 2515/150 and IP 71111.08 and feedback from Region inspectors indicate that licensees' current programs are generally adequate for locating and evaluating and/or correcting boric acid leaks and the NRC inspection guidance is adequate and effective for oversight of BACC programs. All inspection findings have been categorized as very low safety significance. The effectiveness of IP71111.08 will continue to be evaluated as part of annual ROP self-assessment and appropriate improvements will be made as needed.							
3.3.2(1)	Develop inspection guidance for the periodic inspection of PWR plant boric acid corrosion control programs.	High	SCC	Complete	Not required	NRR (IIPB)		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.
nozzle ins conforms been dem issued in 71111.08 PWR RPV included g	Temporary Instruction (TI) 2515/150, issued in 08/03, su spection activities that are implemented in accordance with to its inspection commitments and requirements, during re- nonstrated to be effective in the detection and sizing of PW 11/03, provides interim inspection guidance for follow-up to , "Inservice Inspection Activities", was revised in 05/04 to / head and VHP nozzle inspection activities on a periodic guidance and requirements to perform a performance bas tiveness of these inspection procedures will be evaluated	h the requirement efueling outage VSCC in VHP r to Bulletin 2003 add NRC inspe- basis consiste ed inspection of	ents of NRC O es, using proce nozzles and de 3-02, which inc ection samples int with the gui of licensee's bo	rder EA-03-00 edures, equipm tection of RPV cludes BACC p to observe an dance in TI 25 pric acid progra	9. This TI validates ent, and personnel 'head wastage. T rograms. In additio d evaluate licensee 15/150. This revisi am implementation.	s that a plant that have I2515/152, on, IP e inspection of on also
3.3.4(3)	Develop inspection guidance or revise existing guidance to ensure that VHP [vessel head penetration] nozzles and the RPV head area are periodically reviewed by the NRC during licensee ISI [inservice inspection] activities.	High	SCC	Complete	Not required	NRR (IIPB)
IP 71111. head pene	TI2515/150, issued 08/03, provides interim inspection gu 08, "Inservice Inspection Activities," was revised on 5/11/0 etration inspections. The effectiveness of these inspection ess review is not required.	04 to add perio	dic inspection	requirements a		
3.3.4(8)	Encourage ASME [American Society of Mechanical Engineers] Code requirement changes for bare metal inspections of nickel based alloy nozzles for which the code does not require the removal of insulation for inspections. Also, encourage ASME Code requirement changes for the conduct of non-visual NDE [nondestructive examination] inspections of VHP nozzles.	High	SCC	TBD	TBD	NRR (DE/DRIP)
	Alternatively, revise 10 CFR 50.55a to address these areas.					

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expected communic	STATUS: Completion of this recommendation depends on industry and ASME actions. Staff will review EPRI/MRP guidelines, which are expected to form the basis for ASME code changes, when issued. Issuance has been delayed several times. NRC management has communicated with industry to encourage timely issuance of proposed guidelines. The NRC Staff also participates in ASME Code committees. Once the ASME Code requirements are updated, the staff will evaluate them for inclusion by reference into 10 CFR 50.55a.									
Code, the Commissi with the ir 10 CFR 5 approved Separatel of all ASM developm revision to	spection requirements have been established by issuance NRC staff initiated action to incorporate Order EA-03-009 ion approval in 07/04. The Commission decided not to predustry to revise the ASME code (SRM-SECY-04-0115, 8 0.55a will be done following NRC staff review of industry in Code Case –729, which provides additional inspection re y, the ASME Board on Nuclear Codes and Standards ap ME Code Class 1 alloy 600/82/182 components at frequer is and approval of these code cases. Once these code to 10 CFR 50.55a. These actions will be tracked along wit is stress corrosion cracking and boric acid corrosion issues	9 guidelines int occeed with sep /6/04). The tar actions. In Ju quirements for oproved Code ( ncies that depe e cases are for h the follow-on	o 10 CFR 50.5 parate rulemak get date for se ne 2005 the AS RPV upper he Case –722, wh end on the tem mally publishe	5a and submit ing and directe parate rulemal SME Board on eads. ich recommer perature of the d, the staff will	ted a rulemaking p d the staff to contin king was deleted. Nuclear Codes and ds bare metal visu location. The NRC evaluate endorsing	lan for nue working Any changes to d Standards al examination C supported g them in a				
3.1.4(1)	Determine if it is appropriate to continue using the existing SCC models as a predictor of VHP nozzle PWSCC [primary water SCC] susceptibility given the apparent large uncertainties associated with the models. Determine whether additional analysis and testing are needed to reduce uncertainties in these models relative to their continued application in regulatory decision making.	Medium	SCC	Complete	Not required	RES (DET)				

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
STATUS: In its current form, the model is based on time and temperature effects alone and is adequate for prioritizing reactor VHP inspections. It has been used in the development of inspection requirements in Order EA-03-009 and the bulletins that preceded it. Inspection results to date have been consistent with model predictions and do not indicate a need for revising the model in the near term. A report by the Office of Nuclear Regulatory Research, issued 7/21/03 (ML032461224 and ML032461221), identified refinements that could be made to the model. These improvements are not needed to satisfy this recommendation and will require research activities that are beyond the scope of the LLTF recommendation. The report will be issued in a NUREG together with the reports required for LLTF 3.1.1(1).								
3.3.7(6)	Determine whether ISI summary reports should be submitted to the NRC, and revise the ASME submission requirement and staff guidance regarding disposition of the reports, as appropriate.	Low	SCC	<del>05/05</del> Complete	<del>05/06</del> Not Required	NRR (DE/DLPM)		
STATUS: The staff has reviewed the uses of the ISI reports and concludes that it is appropriate to continue to have the reports submitted to the NRC, so that there is no need to revise the ASME requirements. In particular, the Regions use the ISI reports for inspection planning and to follow up on issues associated with inspection procedure IP 71111.08, "Inservice Inspection Activities." In addition, the Office of Nuclear Regulatory Research reviews the ISI reports to trend aging effects and material degradation, in order to develop recommendations for codes and standards activities.								
the ISI rep	ports; rather, since the reports should still be submitted for	r other reasons	s, the reports w	ill be available	when it is determine			

# Category: Operating Experience

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.
3.1.6(1)	Take the following steps to address the effectiveness of programs involving the review of operating experience: (1) evaluate the agency's capability to retain operating experience information and to perform longer-term operating experience reviews; (2) evaluate thresholds, criteria, and guidance for initiating generic communications; (3) evaluate opportunities for additional effectiveness and efficiency gains stemming from changes in organizational alignments (e.g., a centralized NRC operational experience "clearing house"); (4) evaluate the effectiveness of the Generic Issues Program; and (5) evaluate the effectiveness of the internal dissemination of operating experience to end users.	High	OpE	Complete	12/05	NRR(IROB) and RES
foundation through (s effectiven	This action required the evaluation of various aspects of n of the charter for to Operating Experience Task Force (C 5) of the recommendation in its report dated 11/26/03 (ML ess of the agency's operating experience program that are an dated 4/29/04 (ML041180024).	DETF) [ML03120 033350063). Th	00535]. The C ne OETF made	DETF document e 23 recommen	ed its evaluation or dations for improv	of items (1) ing the

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
3.1.6(2)	<i>Update NRC operating experience guidance documents.</i>	High	OpE	Complete	12/05	NRR (IROB) and RES			
had not be Experience issued in I Managem As part of Force (ML NRR Office On Decen year prior	STATUS: This LLTF recommendation is directed at the fact that Management Directive (MD) 8.5, "Analysis and Evaluation of Operational Data" had not been updated since the dissolution of the Analysis and Evaluation of Operational Data organization and the transfer of Operating Experience Program responsibilities to NRR and RES. However, NRR Office Instruction, LIC-401, "NRR Operating Experience Program," was issued in March 2003 to reflect the current practices of NRR's Operating Experience Section located in the Division of Inspection Program Management. As part of the Operating Experience Action Plan (ML041180024), which implemented the recommendations of the Operating Experience Task Force (ML033350063), the staff developed MD 8.7, "Reactor Operating Experience Program" (ML043570013, ML043570032) and Revision 1 to NRR Office Instruction, LIC-401 (ML043570075) as the framework for a new operating experience program.								
3.1.6(3)	Enhance the effectiveness of NRC processes for the collection, review, assessment, storage, retrieval, and dissemination of foreign operating experience.	High	OpE	Complete	12/05	NRR (IROB) and RES			

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
STATUS: At the time of this recommendation, foreign operating experience, such as that received through the IAEA Incident Reporting System (IRS), was only communicated and distributed in an ad hoc fashion. Today, it is a formal element of the NRC Operating Experience Section screening process and available on the internal web site. NRR Office Instruction LIC-401, "NRR Operating Experience Program," was issued on 3/31/03. This office instruction incorporates action to enhance the effectiveness and utilization of foreign operating experience within the Operating Experience Section. This process will be further enhanced upon implementation of the Operating Experience Action Plan (ML041180024). An overall effectiveness review will be performed approximately one year following implementation of the action plan.								
3.2.4(1)	Assess the scope and adequacy of requirements governing licensee review of operating experience.	High	ОрЕ	Complete	12/05	NRR (IROB)		
STATUS: This assessment was performed as part of the Operating Experience Task Force Report (ML033350063), which was issued November 26, 2003. Section 5 of this report concludes that the scope and adequacy of the requirements related to the licensee review of operating experience are currently acceptable. Inspection Procedure 71152, "Identification and Resolution of Problems," is the key baseline procedure for evaluating licensee utilization of operating experience, and the Operating Task Force found that recent changes to that procedure (Change Notice 03-032) enhanced NRC baseline inspection efforts.								

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.
3.3.1(1)	Provide training and reinforce expectations to NRC managers and staff members to address the following areas: (1) maintaining a questioning attitude in the conduct of inspection activities; (2) developing inspection insights stemming from the DBNPS [Davis- Besse Nuclear Power Station] event relative to symptoms and indications of RCS [Reactor Coolant System] leakage; (3) communicating expectations regarding the inspection follow-up of the types of problems that occurred at DBNPS; and (4) maintaining an awareness of surroundings while conducting inspections. Training requirements should be evaluated to include the appropriate mix of formal training and on-the-job training commensurate with experience. Mechanisms should be established to perpetuate these training requirements.	High	OpE	Complete	<del>05/05</del> Complete	NRR (IIPB)

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
STATUS: The focus of this recommendation is on regional staff. The Inspection Program Branch developed a web-based training course based on the Columbia Space Shuttle Accident to (1) illustrate the importance of maintaining a questioning attitude toward safety and the potential negative consequences that can occur when such a questioning attitude is lost or compromised; (2) provide examples of how issues concerning an organization's safety culture can lead to technological failures; (3) provide insights into investigation techniques that can be used to assess safety significant issues or events; and (4) illustrate the importance of a robust corrective action program and highlight the corrective action program weaknesses that contributed to the shuttle accident.								
completed include th The IMC feedback implement newslette recomme								
3.3.4(2)	Strengthen inspection guidance pertaining to the periodic review of operating experience.	High	OpE	Complete	<del>05/05</del> Complete	NRR(IROB and IIPB)		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.
Problem I of the issuestablish baseline in Issues ide The effectively	The inspection guidance pertaining to the periodic review dentification and Resolution Inspection Procedure 71152 ues identified through the past NRC generic communication confidence that each licensee is detecting and correcting inspection procedures and the performance indicators to pertified through operating experience are an integral part of ctiveness of the changes to IP 71152 was reviewed by ver- ors, (2) the latest version of the inspection procedure was experience was strengthened, and (4) there were no unin- ted the results of completing IP 71152 inspections (fifteen w determined that the four criteria were met. In addition, a ses for inspecting licensee use of operating experience in the vimplemented and the inspection guidance pertaining to to use to be evaluated on an ongoing basis as part of the ann-	on 9/8/03. This problems. A fundame problems. This provide assurance of that assessme erifying that: (1) t is being used, (3) ntended conseque reports each from a pilot inspection he design and e he periodic revise	revision speci- intal goal of the inspection pro- ce that license ent. the planned pro- the inspection uences. The so- pm 2004 and 2 n program con- ngineering are ew of operating	ifically requires e NRC's reactor ocedure's purpo es adequately in ocedure revision n guidance perta staff reviewed 30 2005 with a mix ducted in 2005 eas. The staff c g experience ha	the review, on a sate oversight process se is to supplement dentify and correct ns were issued an aining to the period 0 inspection report from each of the for resulted in enhance oncluded that the	ampling basis, s is to nt the other t problems. d distributed dic review of ts that our regions). cements to the changes were
3.3.5(1)	Maintain expertise in the subject areas by ensuring that NRC inspector training includes: (1) boric acid corrosion effects and control; and (2) PWSCC of nickel based alloy nozzles.	High	OpE	Complete	<del>05/05</del> Complete	NRR (IIPB)

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
current N	Training modules on these topics have been included in RC understanding and approach to monitoring boric acid of the degradation.							
Inspection Proficienc inspectors	A training module on the "Effects of Corrosion," which includes both PWSCC and BACC, was completed by all current inspectors. Also, Inspection Manual Chapter (IMC) 1245, "Qualification Program for the Office Of Nuclear Reactor Regulation Programs," Appendix B, "General Proficiency-Level Training and Qualification Journal" (ML041820014), was revised to include an individual study activity requiring all qualifying inspectors to review the technical subject web-based training, which includes the training on PWSCC and BACC, as well as future web-based training items.							
training. I work with the trainin	n was effectively implemented in 2004 and the Regions d n the long term, the training was added to the IMC 1245 r the Materials Engineering Branch of the Division of Engin g material. The training associated with this recommenda nd regional management attention.	equirements. I	n addition, dur ogy in the Offic	ing 2005, the Ir ce of Nuclear Re	spection Program	n Branch will ch to update		
3.1.2(1)	Revise NRC processes to require short-term and long-term follow-on verification of licensee actions to address significant generic communications (i.e., bulletins and GLs).	Medium	OpE	Complete	12/05	NRR (IROB)		
revision in significant	STATUS: NRR Office Instruction LIC-503, "Generic Communications Affecting Nuclear Reactor Licensees," was revised on 7/23/04. This revision incorporates actions to address the requirement for short-term and long-term follow-on verification of licensee actions to address significant generic communications. As part of the development of a bulletin or generic letter, LIC-503 requires the staff to determine what actions will be necessary for closure of the issue.							
3.1.2(2)	Establish review guidance for accepting owners group and industry resolutions for generic communications and generic issues. Guidance should include provisions for verifying implementation of activities by individual owners groups and licensees.	Medium	OpE	Complete	<del>06/05</del> 10/05	NRR (DLPM, DE, DSSA)		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.	
STATUS: NRR Office Instruction LIC-503, "Generic Communications Affecting Nuclear Reactor Licensees," was revised in July 2004 to include guidance regarding review of owners group and industry resolution to generic communications. Guidance for acceptance review was added to the sections addressing origin and closeout of generic communications. The revision requires the staff to establish review guidance for accepting owners group and industry proposals during the preparation of a generic communication and to establish criteria for accepting owners group and industry proposals during the preparation of a generic communication and to establish criteria for accepting owners group and industry resolutions during closeout. NRR Office Instruction LIC-105, "Managing Regulatory Commitments Made by Licensees to the NRC," was revised in August 2004 to include guidance on accepting regulatory commitments made by third parties such as owners groups. With regard to verification, LIC-503 requires an assessment of the method to be used for verifying licensee responses during the development of a generic communication. One method is by use of a temporary instruction (TI) and guidance for the preparation of a TI is provided. An alternative to a TI is verification of licensee responses through DLPM Project Managers' audits of regulatory commitments, conducted in accordance with LIC-105. LIC-105 provides detailed guidance for conducting the audits. LIC-105 also directs lead PMs for generic communications to provide guidance for verification of owners group or industry commitments in conducting periodic audits, if they were accepted in response to the generic communication, and directs PMs to review generic communication guidance in the selection of the audit sample. The "Commitment Management Program," section of the DLPM Handbook provides an overview of DLPM management expectations and NRR staff guidance for handling regulatory commitments made by licensees for commercial nuclear reactors, and provides a link to LIC-105. The tar							
3.1.2(5)	Conduct follow-on verification of licensee actions associated with a sample of other significant generic communications, with emphasis on those involving generic communication actions that are primarily programmatic in nature.	Medium	OpE	Complete	Not Required	NRR (IROB, IIPB)	

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
STATUS: A task force performed a screening process of candidate generic communications in 07/03 using criteria approved by management. Selection of generic communications and focus areas was completed in 11/03 following management review and input on priorities. Verification plan was presented to NRR LT in 12/03 and revised to address comments. Five focus areas were initially identified. All but one (Service Water) were being addressed by other initiatives. Through TI 2515/159 (issued 7/29/04) a sample review of three plants in each region was conducted to verify licensee actions in response to GL 89-13, "Service Water Problems Affecting Safety-Related Equipment." In addition, a follow-up to RIS 2004-05, "Grid Reliability and the Impact on Plant Risk and the Operability of Offsite Power," was conducted through TI 2515/156 to determine if the RIS accomplished its purpose of raising industry awareness of the potential impacts of grid operation on nuclear power plants.									
The staff concluded that GL 89-13 was generally effective in addressing issues associated with service water systems, although some isolated deficiencies exist and licensees continue to address operational issues. The staff believes that the effectiveness of this GL was enhanced by the comprehensive follow-on NRC inspections after the issuance of the GL and by the ongoing inspection program oversight. Additionally, TI2515/159 was an effective method for assessing GL 89-13 effectiveness. The staff concluded that RIS 2004-05 was effective in informing licensees of NRC expectations in the area of offsite power in a timely manner. Additionally, TI 2515/156 was an effective method of collecting additional operational data.									
3.1.3(2)	Conduct follow-on verification of licensee actions pertaining to a sample of resolved GIs.	Medium	OpE	Complete	Not Required	NRR (DLPM, IIPB)			
STATUS: The staff obtained a list of all resolved GIs, which indicated that 20 GIs have been resolved since 1983. All but three of these were resolved by issuance of generic communications (GCs). One remaining issue was resolved by plant-specific backfits, and two were closed without further action. Thus, a follow-on verification of resolved GIs would essentially require a verification of GCs.									
screening NRR, RE priority lis concluded	a follow-on verification of GCs was conducted separately process of all GCs that considered safety significance, ri S and Region Offices in establishing priority for follow-up. t determined for LLTF Item 3.1.2(5), and one of these is t d that the response to LLTF 3.1.3(2) would be effectively i as unnecessary.	isk significance, Only two of the he subject of one	functional area 9 19 GCs used 9 of the TIs be	a and other fact to resolve GIs ing used to close	ors, and included i matched those in t se out LLTF 3.1.2(	nput from the the final 5). It was			

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
3.2.3(1)	Review a sample of NRC safety evaluations of owners' group submissions to identify whether intended actions that supported the bases of the NRC's conclusions were effectively implemented.	Medium	OpE	Complete	Not Required	NRR (DLPM, IIPB)		
STATUS: The basis for this recommendation was a 1993 request from the NRC to pressurized-water reactor owners groups to provide a safety evaluation (SE) documenting why no unreviewed safety question existed for Alloy 600 nozzle cracking. The Babcock & Wilcox (B&W) Owners Group provided a report that included a statement that B&W plants had developed plans to visually inspect control rod drive nozzles for boric acid deposits. The applicable commitment was not effectively incorporated at Davis-Besse. In general, the NRC staff does not accept owners' group commitments on behalf of licensees, and it appears that the particular example cited as the basis for Davis-Besse LLTF recommendation 3.2.3(1) was unique. The DLPM lead project managers for each of the owners' groups, through individual research and discussion with their respective vendors, were unable to identify any other NRC SEs of owners group submissions related to a generic issue that required an action to be implemented by industry. The NRR technical staff also stated that they did not know of any documentation of this nature.								
3.2.3(2)	Develop general inspection guidance for the periodic verification of the implementation of owners groups' commitments made on behalf of their members.	Medium	ОрЕ	Complete	<del>06/05</del> 10/05	NRR (DLPM, IIPB)		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
STATUS: NRR Office Instruction LIC-503, "Generic Communications Affecting Nuclear Reactor Licensees," was revised in July 2004 to include guidance regarding review of owners group and industry resolution to generic communications. Guidance for acceptance review was added to the sections addressing origin and closeout of generic communications. The revision requires the staff to establish review guidance for accepting owners group and industry proposals during the preparation of a generic communication and to establish criteria for accepting owners group and industry resolutions during closeout. NRR Office Instruction LIC-105, "Managing Regulatory Commitments Made by Licensees to the NRC," was revised in August 2004 to include guidance on accepting regulatory commitments made by third parties such as owners groups.									
a generic alternative accordanc communic	With regard to verification, LIC-503 requires an assessment of the method to be used for verifying licensee responses during the development of a generic communication. One method is by use of a temporary instruction (TI) and guidance for the preparation of a TI is provided. An alternative to a TI is verification of licensee responses through DLPM Project Managers' audits of regulatory commitments, conducted in accordance with LIC-105. LIC-105 provides detailed guidance for conducting the audits. LIC-105 also directs lead PMs for generic communications to provide guidance for verification of owners group or industry commitments in conducting periodic audits, if they were accepted in response to the generic communication, and directs PMs to review generic communication guidance in the selection of the audit sample.								
staff guida	The "Commitment Management Program," section of the DLPM Handbook provides an overview of DLPM management expectations and NRR staff guidance for handling regulatory commitments made by licensees for commercial nuclear reactors, and provides a link to LIC-105. The target date for the effectiveness review was extended to allow a full year of experience with the new procedures before starting the review.								
3.1.2(3)	Establish process guidance to ensure that generic requirements or guidance are not inappropriately affected when making unrelated changes to processes, guidance, etc. (e.g., deleting inspection procedures that were developed in response to a generic issue).	Low	OpE	Complete	<del>08/05</del> Complete	NRR (IIPB)			

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
STATUS: Language was added to IMC 0040, "Preparing, Revising and Issuing Documents for the NRC Inspection Manual" to ensure that inspection requirements are not removed that were previously inserted to emphasize licensee performance in areas identified in a Generic Letter or Nuclear Regulatory Commission (NRC) Bulletin (IMC 0040, Change Notice 04-003, ADAMS Accession # ML040690184, dated 2/2/04). This is a permanent modification to the NRC Inspection Manual, applicable to all changes.									
determine	The revised Manual Chapter requires that the previous four (4) years of changes be reviewed. An effectiveness review in August 2005 determined that no requirements had been deleted, and also identified a procedure improvement that will enable historical tracking of generic requirements beyond 4 years. The Inspection Manual change process will be updated with the new requirements.								
3.1.3(1)	Evaluate, and revise as necessary, the guidance for proposing candidate GIs.	Low	OpE	Complete	05/06	RES			
6.4, "Gen was comp	The staff has completed an evaluation of the guidance for eric Issues Program." A revision of the Handbook 6.4 to pleted by 10/04 and inter-office/regional review and comm That action met the intent of DBLLTF recommendation an	address the DE ents were obtain	BLLTF recomm ned in accorda	nendation to enh	nance and simplify	the process			
3.3.4(7)	Reassess the basis for the cancellation of the inspection procedures that were deleted by Inspection Manual Chapter, Change Notice 01-017 to determine whether there are deleted inspection procedures that have continuing applicability. Reactivate such procedures, as appropriate.	Low	OpE	<del>03/05</del> Complete	<del>05/06</del> Not required	NRR (IIPB)			
procedure reactivate Making," a effectiven	STATUS: A review of 80 procedures deleted by Change Notice CN01-017 was conducted to determine if there were any deleted inspection procedures that have continuing applicability. Four inspection procedures were determined to have continuing applicability and were reactivated. These were IP56700, "Calibration," IP82201, "Emergency Detection and Classification," IP82202, "Protective Action Decision Making," and IP90700, "Feedback of Operating Experience Information at Operating Power Reactors." This action was essentially an effectiveness review of the previous decision and no additional effectiveness review is required. The procedures will be evaluated as part of the annual ROP self-assessment.								

## Category: Inspection Programs

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.				
3.2.5(2)	Revise inspection guidance to provide assessments of: (1) the safety implications of long-standing, unresolved problems; (2) corrective actions phased in over several years or refueling outages; and (3) deferred modifications.	High	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)				
a screenir equipmen was also r within the corrective maintenar reports, m To addres review ope	STATUS: Inspection Procedure (IP) 71152, "Identification and Resolution of Problems," was revised to require the resident inspector to perform a screening review of each item entered into the corrective action program. The intent of this review is to be alert to conditions such as repetitive equipment failures or human performance issues that might warrant additional follow-up through other baseline inspection procedures. IP 71152 was also revised to require a semi-annual review to identify trends that might indicate the existence of a more significant safety issue. Included within the scope of this review are repetitive or closely related issues that may have been documented by the licensee outside the normal corrective action program, such as in trend reports or performance indicators, major equipment problem lists, repetitive and/or rework maintenance lists, departmental problem/challenges lists, system health reports, quality assurance audit/surveillance reports, self-assessment reports, maintenance rule assessments, or corrective action backlog lists.									
modificatio	remains available, such that no unrecognized increase ir ons as one of the areas an inspector can assess to ensur action.									
March 11, expectation significant negative to inspectors deliberate inspection	design function. The effectiveness of the changes to IP 71152 was discussed during a problem identification and resolution focus group meeting held on March 11, 2005. The consensus of the group members was that the changes have resulted in no unintended consequences, have reinforced expectations that inspectors have a questioning attitude, and provide a method for highlighting issues that might be indicative of a more significant problem. In addition, semiannual trend reviews have successfully identified negative equipment trends. In some cases, these negative trends may not have been documented if the inspection guidance had not been changed. There has been some feedback from inspectors requesting additional guidance on how to conduct the semiannual trend reviews. The inspection guidance in this area was deliberately kept non-prescriptive to afford inspectors ample opportunities to follow up on issues that might not fit well elsewhere in the inspection program. Overall, the changes were effectively implemented and addressed the recommendations. IP 71152 will continue to be evaluated on an ongoing basis as part of the annual ROP assessment process.									

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
3.3.5(4)	Develop guidance to address the impacts of IMC 0350 implementation on the regional organizational alignment and resource allocation.	High	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)			
Condition IMC 0350 beyond (N guidelines Davis-Bes had been Besse Ov the conce guidance. improvem recommen	STATUS: The Inspection Program Branch completed an evaluation of the IMC 0350, "Oversight of Operating Reactor Facilities in a Shutdown Condition with Performance Problems," process in June 2003, (ML031890873). It identified the need for specifically budgeting resources for IMC 0350 inspections and providing prescriptive inspection guidelines for the process. The budget estimate was increased for FY2005 and beyond (ML033010385) to account for one IMC 0350 plant per year. IMC 0350 was revised in December 2003, to provide additional inspection guidelines. Davis-Besse remained the only plant under the IMC 0350 process during CY 2004. At the time of the effectiveness review, no additional plants had been considered for IMC 0350 oversight since the implementation of the DBLLTF recommendations. However, feedback from the Davis-Besse Oversight Panel and other stakeholders indicated that the procedural and budgetary changes have been generally effective in addressing the concerns noted by the DBLLTF, particularly in the allocation of resources and implementation of the comprehensive inspection and oversight guidance. In addition, in accordance with the guidance in IMC 0350, the Davis-Besse Oversight Panel is developing a report of recommended improvements to the process based on additional lessons learned. Accordingly, the staff will revise IMC 0350 in CY 2005 to address these recommendations and further improve the process. The IMC 0350 process, including these procedural and budgetary changes, will also continue to be evaluated for efficiency and effectiveness as part of the annual ROP self-assessment process.								
3.3.7(2)	Establish guidance to ensure that decisions to allow deviations from agency guidelines and recommendations issued in generic communications are adequately documented.	High	Insp	Complete	<del>05/05</del> Complete	NRR (DLPM)			

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
<ul> <li>STATUS: Guidance on documenting decision making and a training package containing applicable reference material were issued through a DLPM Handbook update and placed on the Project Managers web site in 02/03. In 04/03, the NRR Director distributed the training package to other NRR divisions by e-mail, and the Deputy EDO for Reactor Programs forwarded it by memorandum (ML030300106) to other offices and the regions.</li> <li>Office Instruction LIC-503, "Generic Communications Affecting Nuclear Reactor Licensees," issued in 06/03, contains guidance on documenting review and closeout of generic communications. A revision in 07/04 added the specific requirement for documenting the basis for allowing deviations from generic communications.</li> <li>The intent of the LLTF 3.3.7(2) was met by the above actions. An effectiveness review of distributing the guidance indicated a need for refresher training for licensing Project Managers. This was conducted at DLPM staff meetings in 06/04 and 03/05. The guidance has also been included in the Project Manager qualification program, so all new PMs will be made aware of the requirements. An effectiveness review for generic communication closeout recommended more specific guidance in LIC-503, which was added in the 07/04 revision.</li> </ul>								
3.2.5(1)	Develop inspection guidance to assess scheduler influences on outage work scope.	Medium	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)		
STATUS: Operability of plant structures, systems, and components was considered to be the fundamental operative regulatory requirement. Therefore, Inspection Procedure (IP) 71111.15, "Operability Evaluations," was modified (IP 71111.15, Change Notice 04-003, ML040690184, dated 2/2/04) to include deferred modifications (potentially deferred due to outage schedular pressure as well as other reasons) as part of the population of items from which to sample for the adequacy of a licensee's process for ensuring operability of all plant systems by surveillance and continuous monitoring. In addition, existing IP 71111.20, "Refueling and Other Outage Activities" assesses the adequacy of the licensee's actions to mitigate and control the changes in plant risk during outage activities. The effectiveness of the regional implementation of these inspection procedures are evaluated annually and the results are documented in the annual Reactor Oversight Process self assessment SECY paper.								
issues or annual R	s review of inspection results and region feedback regard findings resulting from the IP revisions. IPs 71111.15 and OP assessment process and as part of the procedure feet & Program."	d 71111.20 will	continue to be e	valuated on an	ongoing basis as	s part of the		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.				
3.3.1(2)	Develop inspection guidance to assess repetitive or multiple TS action statement entries, as well as, the radiation dose implications associated with repetitive tasks.	Medium	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)				
unplanned associated	STATUS: IMC 2515, Appendix D, Plant Status, was revised in 05/04 to evaluate licensee actions when operating with multiple or repetitive or unplanned Technical Specification (TS) action statements, and included inspection guidance for assessing radiation dose implications associated with repetitive tasks. These procedure changes were reviewed and commented on by the regional staff and approved for implementation.									
licensees workers a guidance.	The staff's review of inspection results and feedback from each Region regarding the implementation of these changes indicates that the licensees were neither operating with excessive repetitive or multiple TS action statement entries nor causing any significant radiation dose to workers as a result of repetitive tasks. The licensees' actions were consistent with TS requirements and occupational radiation exposure guidance. No implementation issues or findings were identified in this area. IMC 2515 will continue to be evaluated on an ongoing basis as part of the annual ROP assessment process and as part of the procedure feedback process in accordance with IMC 0801.									
3.3.3(1)	As an additional level of assurance, identify alternative mechanisms to independently assess plant performance as a means of self-assessing NRC processes. Once identified, the feasibility of such mechanisms should be determined.	Medium	Insp	Complete	05/06	NRR (IIPB)				
(INPO) an performan Decembe assessme identified	The staff researched plant assessments performed by in ad International Atomic Energy Agency (IAEA) that could be ace assessment process. Inspection Manual Chapter (IM r 21, 2004 (ML043560249), to include consideration of the ent preparations. During the assessment preparations, the by the NRC, and if so, make a determination if baseline in a, this information will be assessed during the annual reac- inted.	be used as a m C) 0305, "Oper ese independe e staff will dete aspection resou	eans of self-ass ating Reactor As nt assessments rmine if there are urces should be o	essing the NRC ssessment Prog during the mid- e possible plant directed to evalu	inspection and p gram," was revise cycle and end-of- performance defu ate the possible	blant od on cycle ficiencies not deficiencies.				

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
3.3.4(1)	Review inspection guidance pertaining to refueling outage activities to determine whether the level of inspection effort and guidance are sufficient given the typically high level of licensee activity during relatively short outage periods. The impact of extended operating cycles on the opportunity to inspect inside containment and the lack of inspection focus on passive components should be reviewed. This review should also determine whether the guidance and level of effort are sufficient for inspecting other plant areas which are difficult to access or where access is routinely restricted.	Medium	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)		
considera addition, t inspection these insp Region fe componer opportunit environme which indi 71111.20	STATUS: Inspection Procedure (IP) 71111.20 "Refueling and Other Outage Activities" was revised to include containment walkdowns and consideration of walkdowns in other restricted areas (IP 71111.20, Change Notice 04-011, ADAMS Accession #ML041280018, dated 5/6/04). In addition, the inspection of passive component integrity is being increased in response to DBLLTF items 3.3.2(1) and 3.3.4(3), which enhanced inspection of licensee inservice inspection activities, including boric acid corrosion control. The effectiveness of the regional implementation of these inspection procedures are evaluated annually as part of the annual Reactor Oversight Process self assessment. Region feedback identified a need to expand on the IP 71111.20 guidance to ensure proper focus during outages on structures, systems, and components that are inaccessible during power operations. However, prior to the 5/6/04 revision, the Regions had used outage periods as opportunities to inspect plant areas that are only accessible during outages. This includes inspections under other IPs in the ROP. ALARA and environmental conditions (i.e., high temperature) were identified as limiting factors for containment walkdowns in several boiling water reactors, which indicates that containment type should be factored into containment walkdown guidance. This is being evaluated as a potential IP 71111.20 revision. IP 71111.20 will continue to be evaluated on an ongoing basis as part of the annual ROP assessment process and as part of the procedure feedback process in accordance with IMC 0801.							
3.3.4(4)	Revise IMC 0350 to permit implementation of IMC 0350 without first having established that a significant performance problem exists, as defined by the ROP.	Medium	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
STATUS: IMC 0350 was revised 12/31/03 to state that a plant can be considered for oversight under the IMC 0350 process when a significant operational event has occurred. The next revision to IMC 0350 will revise the title to reflect this change. Davis-Besse remained the only plant under the IMC 0350 process during CY 2004. At the time of the effectiveness review, no additional plants had been considered for IMC 0350 oversight since this change was made in December 2003. However, feedback from the Davis-Besse Oversight Panel and other stakeholders indicates that this change and those noted under DBLLTF item number 3.3.5(4) have been effective in addressing the concerns noted by the DBLLTF, particularly in the allocation of resources and implementation of the comprehensive inspection and oversight guidance. The IMC 0350 process, including this particular change, will continue to be evaluated for efficiency and effectiveness as part of the ROP self-assessment process on an annual basis.								
3.3.4(5)	Review the range of NRC baseline inspections and plant assessment processes, as well as other NRC programs, to determine whether sufficient programs and processes are in place to identify and appropriately disposition the types of problems experienced at DBNPS. Additionally, provide more structured and focused inspections to assess licensee employee concerns programs and safety conscious work environment (SCWE).	Medium	Insp	Complete	<del>TBD-</del> Not Required	NRR (IIPB)		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.
the annual Re Based on the items, (2) per (4) reviewing specification a shutdowns, (2 0350 plants. importance of	the Inspection Program Branch (IIPB) reviewed the NRC eactor Oversight Process (ROP) self-assessment in Ap se reviews, the staff has enhanced the baseline inspect forming a semi-annual trend review focused on recurrin deferred modifications, and (5) evaluating licensee act action statements. The staff has enhanced the plant as 2) requiring more complete documentation of important The staff has also enhanced the ROP by (1) requiring a questioning attitude, and (2) requiring annual refrest s DBLLTF action item is complete.	ril 2004, and tion program ng equipment ions when op ssessment pr staff decisior training on bo	also reviewed cor by (1) requiring th issues, (3) requir erating with multip ocess by (1) stren ns, and (3) budget pric acid corrosion	npleted DBLI ne screening ing containmo ble, repetitive gthening the ing resources , stress corro	TF items related to of all licensee correc ent walkdowns durin , or unplanned techr oversight of plants i s for Inspection Man sion cracking, and th	the ROP. ctive action ng outages, nical n extended ual Chapter he
an option to d treatment of c other indicato including enh safety culture inspection and to provide mo separately in	e second half of this item, on August 30, 2004, the Con evelop an inspection process to systematically assess cross-cutting issues to more fully address safety culture rs already available to the NRC, should develop tools t anced problem identification and resolution initiatives, a . Based on this direction from the Commission, the sta d guidance in the area of safety culture, which encomp re focused inspections on employee concerns program response to the SRM. Therefore, the second half of th be evaluated as part of the annual ROP self-assessme	safety culture e. The SRM r hat allow insp and should er iff will work w asses SCWE hs and SCWE his recommer	e. Instead the SR noted that the staff pectors to rely on sure that the insp ith the appropriate . As a result of th has been supers	M requires the should rely of more objective ectors are pre- stakeholder e Commission eded and ex	e staff to enhance the on inspector observa- re findings, should co- operly trained in the s to provide more st on's direction, the DE panded upon and wi	he ROP ations and onsider area of ructured BLLTF item ill be tracked

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.
3.3.7(1)	Reinforce expectations for the implementation of guidance in the PM handbook for PM site visits, coordination between PMs and resident inspectors, and PM assignment duration. Reinforce expectations provided to PMs and their supervisors regarding the questioning of information involving plant operation and conditions. Also, strengthen the guidance related to the license amendment review process to emphasize the need to consider current system conditions, reliability, and performance data in SERs. In order to improve the licensing decision-making process, the NRC should strengthen its guidance regarding the verification of information provided by licensees.	Medium	Insp	Complete	<del>05/05</del> Complete	NRR (DLPM)

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
The "Site section dis current co Requests inspector clarificatio questionir meetings. The effect the expec resulted ir With rega	STATUS: Several of these recommendations are addressed, at least in part, by existing procedures. The "Site Visits" section of the DLPM Handbook provides guidance to PMs on activities to be conducted during site visits. The "Morning Calls" section discusses interactions with Region personnel. Office Instruction LIC-100, Rev. 1 (issued 01/04) provides guidance on considering current conditions during licensing action reviews. Office Instruction LIC-101 provides guidance on the amendment review process and use of Requests for Additional Information (RAI)for obtaining information. IP 71005 (issued 08/03) provides a mechanism for PMs to obtain resident inspector (RI) support in obtaining plant information. In addition, a memo from the DLPM Director to the DLPM staff (6/25/04) provided clarification of management expectations for PM site visits, coordination between PMs and resident inspectors, PM assignment duration, questioning of information, and verifying information provided by licensees. This also has been discussed at division and management meetings. The DLPM handbook and appropriate Office Instructions were updated to include this additional guidance . The effectiveness review determined that this recommendation was successfully implemented. In general, PMs visited their sites consistent with the expectation, although travel and budget constraints, special assignments such as the security plan review team, and other resource issues resulted in some PMs not visiting their sites.								
Of the 18		as assigned to	the plant was 3.	44 years. PM a	ssignment durati				
by license action and sending th the Reside cooperatio program h and, an R demonstra	Most PMs include the Region and RI during the licensing review and when drafting the safety evaluation. Verification of information submitted by licensees is being accomplished, as evidenced by the identification of deficiencies with licensee submittals on a few occasions. Prompt action and attentiveness by several PMs resolved complicated issues by supplying plant operational information to the technical staff before sending the licensee an RAI. Communications between the PM, RI and the technical staff took various forms. Sharing of information between the Resident and the PM led to many successful reviews and the capturing of potential safety issues. Some examples are: PM and RI cooperation on heavy loads accident analysis; an RI provided operational information that the licensee's foreign material exclusion (FME) program had deficiencies and the licensee took steps to correct those issues prior to approval of an amendment that relied on its FME program; and, an RI provided information on the lack of margin for the ultimate heat sink and an emergency TS change was denied. These examples demonstrate that the PMs work with RIs and the region to consider current plant conditions, question and verify data provided by licensee, and improve the licensing decision-making process.								
APP. F	Conduct an effectiveness review of the actions taken in response to past lessons-learned reviews.	Medium	Insp	Complete	<del>05/06</del> Not Required	NRR(IIPB)			

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
STATUS: A task force conducted the recommended review and issued its report on 8/2/04 (ML042110287). This completed the scope of work required by this LLTF recommendation and, since the Appendix F effort was itself an effectiveness review, an additional effectiveness review is not required. However, the report findings and recommendations are being addressed.									
effectively managem program t special at through a and staff t Davis-Bes Specific it	Force found that, while previous lessons learned reviews were implemented. It recommended development of an agent and endorsed by the Commission in its 12/15/04 SRM hat addresses the task force report and the SRM. The testention from high-level, multi-office or agency level lesson phased approach. Program definition and draft documer training, the base program will be implemented by June 20 ase LLTF recommendations.	cy-wide correct A (ML04350063 am is developin is that stem from tation will be d 006. The team	tive action progr 39). The EDO f ng a program the m organizationa eveloped by De i's activities are	am. This recon formed a team t at will address I I failures. The p cember 31, 200 being tracked a	nmendation was a to develop a corr essons learned s program will be in 05. Following a pi nd reported sepa	accepted by ective action elected for pplemented lot program rately from the			
3.3.2(2)	Revise the overall PI&R inspection approach such that issues similar to those experienced at DBNPS are reviewed and assessed. Enhance the guidance for these inspections to prescribe the format of information that is screened when determining which specific problems will be reviewed.	Low	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)			

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
STATUS: The Inspection Program Branch issued a revision in 09/03 to Inspection Procedure (IP) 71152, "Identification and Resolution of Problems," to include an inspection requirement to perform a semi-annual review to identify trends that might indicate the existence of a more significant safety issue. Training to inform the inspection staff of this change to IP 71152 was conducted using web-based training and follow up conference calls between the regions and the program office. The training was documented as complete in May 2004.								
resolution unintende issues tha program of trends. In been som in this are in the insp	tiveness of the changes to IP 71152 addressing the DBLL focus group meeting held on March 11, 2005. The cons ad consequences, have reinforced expectations that insp at might be indicative of a more significant problem. In ad office, have highlighted and communicated semiannual tro a some cases, these negative trends may not have been on the feedback from inspectors requesting additional guidance a was deliberately kept non-prescriptive to afford inspector bection program. Overall, the changes were effectively in ted on an ongoing basis as part of the annual ROP asses	ensus of the gr ectors have a q Idition, the regio end reviews that documented if t ce on how to co ors ample oppo	oup members way puestioning attitu- pnal inspection p at have been suc- he inspection guo product the semial product the semial product the semial product the semial product the semial product the semial	as that the char de, and provide procedure leads ccessful at ident uidance had not unnual trend rev w up on issues t	nges have resulte a method for hig , in conjunction w ifying negative ec been changed. iews. The inspec hat might not fit v	d in no phlighting vith the NRR quipment There has ction guidance well elsewhere		
3.3.2(3)	Provide enhanced Inspection Manual Chapter guidance to pursue issues and problems identified during plant status reviews.	Low	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
STATUS: IP 71152, "Problem Identification and Resolution," was revised in 09/03 to require the resident inspector to perform a screening review of each item entered into the corrective action program. The intent of this review is to be alert to conditions such as repetitive equipment failures or human performance issues that might warrant additional follow-up through other baseline inspection procedures.								
resolution unintende issues tha program of trends. In been som in this are in the insp	The effectiveness of the changes to IP 71152 addressing the DBLLTF recommendations was discussed during a problem identification and resolution focus group meeting held on March 11, 2005. The consensus of the group members was that the changes have resulted in no unintended consequences, have reinforced expectations that inspectors have a questioning attitude, and provide a method for highlighting issues that might be indicative of a more significant problem. In addition, the regional inspection procedure leads, in conjunction with the NRR program office, have highlighted and communicated semiannual trend reviews that have been successful at identifying negative equipment trends. In some cases, these negative trends may not have been documented if the inspection guidance had not been changed. There has been some feedback from inspectors requesting additional guidance on how to conduct the semiannual trend reviews. The inspection guidance in this area was deliberately kept non-prescriptive to afford inspectors ample opportunities to follow up on issues that might not fit well elsewhere in the inspection program. Overall, the changes were effectively implemented and addressed the recommendations. IP 71152 will continue to be evaluated on an ongoing basis as part of the annual ROP assessment process.							
3.3.2(4)	Revise inspection guidance to provide for the longer-term follow-up of issues that have not progressed to a finding.	Low	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.
	IP 71152, "Problem Identification and Resolution," was ronducted by the resident inspectors, biennial reviews of Ic					
resolution unintende issues tha program of trends. In been som in this are in the insp	tiveness of the changes to IP 71152 addressing the DBLL focus group meeting held on March 11, 2005. The conse d consequences, have reinforced expectations that inspe- at might be indicative of a more significant problem. In ad- office, have highlighted and communicated semiannual tre- a some cases, these negative trends may not have been of e feedback from inspectors requesting additional guidance a was deliberately kept non-prescriptive to afford inspector pection program. Overall, the changes were effectively im ted on an ongoing basis as part of the annual ROP asses	ensus of the gr ectors have a c dition, the regio and reviews that documented if t ce on how to co ors ample oppo uplemented and	oup members wa juestioning attitu onal inspection p at have been suc he inspection gu onduct the semia ortunities to follow d addressed the	as that the char de, and provide rocedure leads cessful at ident idance had not nnual trend rev v up on issues	nges have resulte a method for hig , in conjunction w ifying negative ec been changed. iews. The inspect that might not fit v	ed in no hlighting vith the NRR quipment There has ction guidance well elsewhere
3.3.3(2)	Perform a sample review of the plant assessments conducted under the interim PPR [Plant Performance Review] assessment process (1998-2000) to determine whether there are plant safety issues that have not been adequately assessed.	Low	Insp	Complete	Not Required	NRR (IIPB)
	An audit of eight PPRs (2 PPR per Region) was comple d. No additional follow-up is necessary.	ted in 06/04. I	t did not identify	any issues that	had not been ad	equately
3.3.4(6)	Provide ROP refresher training to managers and staff members.	Low	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
STATUS: Based on the Davis Besse LLTF Report, ROP Refresher Training was provided at each of the Regional Inspector Counterpart Meetings in 05/04. The topic of the ROP Refresher Training session was an individual's role in developing and maintaining a questioning attitude. The slide presentation can be found at ADAMS (ML041320101).									
The IMC1245, "Qualification Program For the Office of Nuclear Reactor Regulation Programs" (ML04180012), was revised to include a requirement for annual ROP Refresher Training. IMC 1245 requires that topics for ROP refresher training will be solicited during the Spring Regional Inspector Counterpart Meetings. The IMC 1245 Management Steering Group will select the topic(s), determine the method of training, and determine the timing of the training. The NRR Inspection Program Branch will be responsible for ensuring the training is developed and implemented during the fall of each year.									
This action was effectively implemented in 2004. The Inspection Program Branch provided the initial ROP refresher training during the spring regional inspector counterpart meetings. The training focused on maintaining a questioning attitude. In the long term, IMC 1245 was revised to include a requirement for annual ROP refresher training.									
feedback implement discussing	The IMC 1245 Management Steering Group and IMC 1245 Working Group annually review the effectiveness of inspector training through feedback forms submitted, results of the inspector oral boards, and regional experience. Improvements and revisions are recommended and implemented as appropriate. In addition, the Regions discuss current ROP issues during inspector counterpart meetings and in newsletters discussing value-added findings. Further, the IMC 1245 Management Steering Group, comprised of Regional Division/Deputy Division Directors, discusses potential ROP refresher training topics and chooses the topic to be discussed during formal training.								
In summary, the training associated with this recommendation was effectively implemented and will be continually reviewed as part of the inspector training program reviews and regional management attention.									
3.3.5(2)	Reinforce IMC 0102 expectations regarding regional manager visits to reactor sites.	Low	Insp	Complete	<del>05/05</del> Complete	NRR (IIPB)			

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
expectation visit response Operator I	During the July 2003 Regional Division Director Counte ons for site visits. During a general discussion of reactor of onsibilities for the senior resident and resident inspectors, Licensing manager, the DRP Division Director or Deputy, onsibilities were discussed and are outlined in detail in IMO	oversight proce each line mana and the Regio	ess topics, a han ager, Division of nal Administrator	d out was distri Reactor Projec or Deputy Rec	ibuted which outli t (DRP) manager jional Administrat	ned the site s, the or. The site		
meeting a added ins site visits.	n was effectively implemented in 2003. The training was nd focused on the requirements of IMC 0102. In addition pection activities, IMC 0102 is being revised to improve th In summary, the training associated with this recommen ctor training program reviews and regional management a	, as part of reg ne expectations dation was effe	ional efforts to in and requiremer	nprove consistents for regional	ency and commur managers regard	nicate value- ing reactor		
3.3.5(3)	Establish measurements for resident inspector staffing, including the establishment of program expectations to satisfy minimum staffing levels.	Low	Insp	Complete	Not Required	NRR (IIPB)		
STATUS: A "Site Staffing" metric (ML032410588) was developed in 12/03, with regional input, to monitor gaps in permanent resident and senior resident inspector staffing at reactor sites. This metric was pilot tested in calendar year 2004, adjustments have been made based on the results of the pilot, and a revised metric was issued to the regions in 12/04. A criterion of maintaining at least 90% staffing program-wide has been established for this metric. In addition, any single site that falls below 90% will be specifically evaluated as part of the Reactor Oversight Process self-assessment process. This new metric will be used as an input to the annual Reactor Oversight Process self-assessment process. Since the effectiveness review for this change will be an ongoing assessment of usefulness as the metric is used as an input to the process, no additional effectiveness review is required.								
3.3.7(5)	Fully implement Office Letter 900, "Managing Commitments Made by Licensees to the NRC," or revise the guidance if it is determined that the audit of licensee's programs is not required. Further, determine whether the periodic report on commitment changes submitted by licensees to the NRC should continue to be submitted and reviewed.	Low	Insp	Complete	<del>05/05</del> Complete	NRR (DLPM)		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.
the NRC," which we two major parts. LIC-105 provides commitments. Pre has been found be also directs license changes to commitmentation.	Letter 900 was revised and incorporated into NR was issued on 05/27/03. LIC-105 requires perio The first is a verification of the licensee's implem criteria for selection of the sample. The second rogram controls will be verified to be consistent v by the NRC (SECY-00-045, dated 2/22/00) to pro- sees to submit periodic reports of changes to cor- nitments. It also includes a sample to confirm that The results of the audit will be documented in a	dic audits (every nentation of NRC I is a verification with industry guid ovide acceptable mmitments. This at the licensee's report from the F	7 3 years) by the C commitments b of the licensee's delines in Nuclea guidance for ma part of the audit program ensures PM.	DLPM Project y reviewing a program for n r Energy Instit naging regula will be done th s commitment	Managers (PMs) the sample of commitme nanaging changes to ute document NEIS tory commitments. hrough additional sates are maintained fol	nat consist of ents. o 99-04, which NEI 99-04 amples of llowing initial
discuss requirem	of the basis for this recommendation, the LLTF a ents for periodic audits of licensees' commitmen Visits" and "Commitment Management Program	t management p	orograms. The D	LPM Handboo	ok has been revised	and the
found that, consis PMs suggested th improve efficiency	LLTF recommendation has been met by the issustent with the guidance and management expect that having the resident inspectors perform the au y, and reduce travel costs. Most PMs were in a be considered and the staff will determine wheth ites.	ations, one-third udits as part of 1 greement that th	l of the reviews w 0 CFR 50.59 rev ne audit documer	vere completed iews would re atation require	d during the first yea tain the benefit of th ments should be rea	ar. Some ne audit, duced.
Some items ident instead, rely on so listing and current	ne audits, PMs generally gained confidence that ified for future consideration include : (1) Some everal plant tracking subsystems to manage reg t status of all regulatory commitments, (2) Enfor , (3) Licensees typically do not formally identify	licensee do not ulatory commitm cement of comm	have a dedicated nents, which resu nitments can be d	d system to tra Its in the licen difficult since o	ack regulatory comn see not having a co commitments can be	nitments and, mprehensive
	s to evaluate the efficiency of the audit process and will be tracked through that process.	and the need for	procedure chang	ges have been	entered into the NI	RR corrective

## Category: Barrier Integrity

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
3.1.5(1)	Determine whether PWR plants should install on-line enhanced leakage detection systems on critical plant components, which would be capable of detecting leakage rates of significantly less than 1 gpm.	High	BI	<del>03/05</del> Complete	<del>05/06</del> Not required	RES (DET) for research report NRR/RES for remaining actions		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
3.2.1(1)	Improve the requirements pertaining to RCS unidentified leakage and RCPB leakage to ensure that they are sufficient to: (1) provide the ability to discriminate between RCS unidentified leakage and RCPB leakage; and (2) provide reasonable assurance that plants are not operated at power with RCPB leakage.	High	BI	<del>TBD</del> Complete	<del>TBD</del> Not required	RES (DET) for research report NRR/RES for remaining actions			
In evaluat reactor co technique requireme However, As a resul and maint	STATUS: This item was implemented in conjunction with LLTF 3.1.5(1) above. In evaluating the need for additional requirements pertaining to leakage detection, the staff considered past operating experience related to reactor coolant system integrity and the performance deficiencies that led to the degradation that occurred at Davis-Besse. The staff identified techniques that could improve localized leak detection and on-line monitoring and several areas of possible improvements to leakage detection requirements that could provide increased confidence that plants are not operated at power with reactor coolant pressure boundary leakage. However, implementing these increased capabilities would most likely result in a very modest reduction in loss-of-coolant accident frequencies. As a result, the staff concluded that the associated risk reduction that may be realized would not justify the costs associated with the installation and maintenance of such equipment (i.e., the cost-benefit criteria associated with implementation of the backfit rule [10 CFR 50.109] could not be satisfied). Since no changes were recommended, an effectiveness review is not required.								
3.2.1(2)	Develop inspection guidance pertaining to RCS unidentified leakage that includes action levels to trigger increasing levels of NRC interaction with licensees in order to assess licensee actions in response to increasing levels of unidentified RCS leakage. The action level criteria should identify adverse trends in RCS unidentified leakage that could indicate RCPB degradation.	High	BI	Complete	05/06	NRR (IIPB)			

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
STATUS: IMC 2515, Appendix D, "Plant Status," was revised in 05/04 to require inspectors to trend leak rates and monitor unidentified leakage for adverse trends, and, if any are noted, to inform licensee management and regional management. The guidance also requires inspectors to review licensee procedures and action plans to identify source(s) of RCS unidentified leakages when RCS leakages are suspected and to review licensee procedures for action steps, as unidentified leakage approaches licensee administrative limits or technical specifications allowed values. IMC 2515, Appendix D, was revised again in 01/05 to provide guidance and techniques necessary for assessing potential adverse trends and external backage approaches.									
action leve	IMC 2515, Appendix D, was revised again in 01/05 to provide guidance and techniques necessary for assessing potential adverse trends and action levels in response to increasing levels of RCS unidentified leakage. The effectiveness review was deferred to provide an adequate period of time to use the new guidance.								
3.2.1(3)	Inspect plant alarm response procedure requirements for leakage monitoring systems to assess whether they provide adequate guidance for the identification of RCPB leakage.	High	BI	Complete	<del>05/05</del> Complete	NRR (IIPB)			
place to (' or inopera corrective procedure Procedure The asses staff's rev alarm resp system bo continue t	STATUS: To address this recommendation, inspection guidance has been revised to verify that licensees have programs and processes in place to (1) monitor plant-specific instrumentation that could indicate potential RCS leakage, (2) meet existing requirements related to degraded or inoperable leakage detection instruments, (3) use an inventory balance check when there is unidentified leakage (4) take appropriate corrective action for adverse trends in unidentified leak rates, and (5) pay particular attention to changes in unidentified leakage. The revised procedures include Inspection Manual Chapter 2515 Appendix D (Plant Status Review), Inspection Procedure 71111.22, and Inspection Procedure 71111.08. These revisions were issued in 05/04 and inspections have commenced.								

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.			
3.3.3(3)	Continue ongoing efforts to review and improve the usefulness of the barrier integrity PIs [Performance Indicators]. These review efforts should evaluate the feasibility of establishing a PI which tracks the number, duration, and rate of primary system leaks that have been identified but not corrected.	High	BI	<del>05/05</del> Complete	<del>05/06</del> Not Required	NRR(DIPM)			
representa program. by the cor The seco primary sy plant tech corrected The indus to track th feasible at reporting,	STATUS: The review and improvement of PIs is on ongoing process, which is performed by a working group that includes NRC and industry representatives. The PI program is a voluntary program for the industry in that there are no regulatory requirements associated with the program. Changes to the program generally require consensus between the NRC staff and industry. The first part of LLTF 3.3.3(3) is satisfied by the continuation of this ongoing process. The second part of the recommendation requires a feasibility evaluation of establishing an additional PI for tracking number, duration and rate of primary system leaks. The existing Reactor Coolant System (RCS) Leakage PI already monitors identified leakage as a percentage of the plant technical specifications limit. The intent of the PI is to call attention to those plants that have identified primary system leaks but have not corrected them in a timely manner. Only five plants have crossed the green-white threshold (greater than 50 percent of TS limit) in five years. The industry and NRC staff established a subgroup composed of NRC staff and industry representatives to assess the feasibility of creating a PI to track the number, duration, and rate of primary system leaks that have been identified but not corrected. The group concluded that it is not feasible at present due, in part, to the difficulty licensees have in determining small leak rates accurately, and, in part, to the quarterly data reporting, which makes it difficult for the staff to determine the number of leaks, the rate, and the duration. However, the staff will continue to follow progress in leak detection capability and industry feforts in this area.								
As part of the continuing effort to improve usefulness of the barrier integrity PIs and the Reactor Oversight Process, the staff/industry working group agreed to have the subgroup explore possible improvements to the RCS leakage PI. The subgroup has met on a number of occasions and is currently interacting with the Westinghouse Owners Group to understand the efforts being undertaken by that group. In summary, the staff has assessed the feasibility of establishing the PI which tracks the number, duration, and rate of primary system leaks that have been identified but not corrected and has determined that it is not feasible at this time. As part of the ongoing efforts to improve the Reactor Oversight Process and PI Program, the staff is working with its external stakeholders and has established a NRC staff/industry subgroup to explore and possibly improve the RCS Leakage PI. Since this is a continuing process and no specific changes were made, there is no need for an effectiveness review.									

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.		
3.3.4(9)	Review PWR plant technical specifications to identify plants that have non-standard RCPB leakage requirements. Pursue changes to those technical specifications to	High	BI	Complete	Not Required	NRR (IROB)		
STATUS: Plants with nonstandard RCPB technical specifications (TSs) were identified in a 07/03 study (ML031980277). The study indicated that only one plant did not have TSs for RCPB leakage. Subsequently, this plant submitted a technical specification change request that will bring it into alignment with the standard TSs. This change was approved on 5/7/04. Now all PWR TSs have RCPB leakage limits consistent with standard TSs. The requirements for shutdown, if leakage exists, are not identical, but all plants require appropriate conservative action to place the plant in cold shutdown within the time frame of the standard TSs.								
3.3.7(3)	Evaluate the adequacy of analysis methods involving the assessment of risk associated with passive component degradation, including the integration of the results of such analyses into the regulatory decision-making process.	Medium	BI	<del>05/05</del> Complete	<del>05/06</del> 09/06	RES		

LLTF No.	LLTF Recommendation	Priority	Category	Target Date	Effectiveness Review	Lead Org.
In general, the methods to pro- paramount for assessment m predict degrad reliable predic proper combin steam generat other portions The Division D understanding respect to the and analytical place of empir The Division D consistent with to implement t	vorking group consisting of members of the NRR ar WG found that the methods used to assess risk ar oduce robust results. Also, an understanding of the responsible risk-informed regulatory decisionmakin odels alone are usually inadequate to provide stror lation rates and structural integrity effects, and the I tions very far beyond the latest available measurem ation of inspection results and predictive modeling for tube integrity program that has recently been de of the pressure boundary components that are imp Directors agree that the methods used to assess risk of the limitations and uncertainties is necessary to need for decision makers to carefully consider the or results. But, it is more difficult than usual to do so fi cal reliability data. Based on the WG findings, the Directors generally endorsed the WG recommendation the NRR/DSSA effort to assess the May 2004 GA he training identified by the WG for incorporating th s required to implement these recommendations, a	e adequate; he results of any g. The WG re g support for r imited informa- ients. Howeve can be succes veloped in coo ortant to safety a are adequate make the appre- degree of unce- for degradation revaluation rec- ons and noted O report on the e risk assessm	owever, in most risk assessme aport, dated Mai many types of o tion about plant er, the WG cond sfully used to a peration with in /. and data limitation opriate decision ertainty of and the issues, becau ommended by that the impler e Davis-Besses ment results in r	cases there i nt, as well as i rch 31, 2005, f lecisions. The -specific cond cluded that ded dequately cond dustry, is suggest ations need to n. Degradation he level of cond se of the great DBLLTF 3.3.7 nentation of the shutdown. NF egulatory deci	s insufficient data to us its limitations and unc found that the available e portions of the risk r itions often make it d cisions made on the b trol the risk to the pul gested as a model for be well understood. In issues are not uniq fidence in the available ter reliance on predic 7(3) is considered co re recommendations a RR and RES will develops sion-making. The ov	certainties, is ole risk models that ifficult to make basis of a blic. The r success in An ue with ole information tive models in mplete. should be elop a strategy rerall training