Generic Issue (GI) Status Update Form

This form is provided for your use in describing changes in the status of Generic Issues (GIs), relative to that presented in the Generic Issue Management Control System (GIMCS) Report for the 3rd Quarter of Fiscal Year (FY) 2008 GIMCS Reports (ML082180364), through the end of the 4th Quarter of FY 2008 (i.e., September 30, 2008). (See the representative example provided on the following pages.) Please send status updates, approved through the responsible Branch Chief, via email to Jack W. Foster at JWF@nrc.gov, with copies provided to the responsible Deputy Division Director and the Office GIP Coordinator (see the checklist provided with this update form), no later than September 19, 2008.

GI Number:

GI Title:

GI Responsibilities:

- **Responsible Project Manager:**
- **Branch Chief:**
- **Division Manager:**
- **Office GIP Coordinator:**

Narrative of Problem:

Narrative of Work Scope:

Narrative of Status:

Affected Documents:

Problem / Resolution:

Reasons for Schedule Changes:

Milestones and Their Due Dates:

Generic Issue (GI) Status Update Form

This form is provided for your use in describing changes (Example Only) since the Second Quarter FY-2007 GIMCS Reports (ML070510602). Send status updates via e-mail to Jack Foster at JWF@nrc.gov, with copies provided to your Division Manager and the Office GIP Coordinator (identified in checklist), by no later than June 27, 2007.

GI Number: GI-163

GI Title: Multiple Steam Generator Tube Leakage

GI Responsibilities: No Changes

- ❑ **Responsible Project Manager:** Emmett Murphy
- ❑ **Branch Chief:** Allen Hiser
- ❑ **Division Manager:** Michelle Evans
- ❑ **Office GIP Coordinator:** Martin Murphy

Problem: Delete the last sentence and add the following:

The DPV (and later DPO) was initially prompted by widespread outer diameter stress corrosion cracking (ODSCC) at the steam generator (SG) tube support plates at Trojan (which the author claimed could not be reliably detected) and also by the staff's approval of alternate repair criteria which would allow many tubes known to contain such cracks to remain in service.

Work Scope: Replace with the following:

The staff has considered the DPO concerns as part of its development of a new regulatory framework governing SG tube integrity. The NRC originally planned to develop a rule involving a more flexible and more effective regulatory framework for SG tube surveillance and maintenance activities (compared to existing technical specification requirements) that allows a degradation-specific management approach. The staff discontinued this effort in 1997 after a regulatory analysis indicated that rule making was unnecessary. With Commission approval, the staff undertook an effort to develop a generic letter requesting that all PWR licensees submit proposed changes to their plant technical specifications that would ensure SG tube integrity is maintained. (This generic letter initiative included a draft regulatory guide and sample technical specifications incorporating a programmatic, performance based strategy for ensuring SG tube integrity.)

On December 1, 1997, the industry informed the staff of an industry initiative, NEI 97-06, "Steam Generator Tube Integrity Guidelines," which paralleled the above draft regulatory guide and which all PWR licensees had committed (among themselves) to implement. NEI 97-06 provides a programmatic, performance based approach to ensuring SG tube integrity. With commission approval, the staff put the above generic letter initiative on hold and worked with the

industry to identify revised technical specifications which would be aligned with the NEI 97-06 initiative and which would ensure that all PWR licensee's are implementing programs which ensure that SG tube integrity will be maintained. This effort was completed in May 2005 with the staff's approval of the TSTF-449, Rev 4 which includes a new standard technical specification template governing SG tube integrity.

Regarding the DPO, its nature evolved considerably in the years subsequent to 1991, adding additional concerns relating to alternate tube repair criteria, iodine spiking assumptions for radiological analysis, severe accidents, and many other concerns. The staff prepared a DPO consideration document which it provided to the EDO on September 1, 1999. At the EDO's request, the ACRS served as an equivalent ad hoc panel to review the DPO issues. The ACRS met with the DPO author and other members of the NRC staff and reviewed the documentation related to the DPO issues. The ACRS issued NUREG-1740 on February 1, 2001 documenting its conclusions and recommendations. By memorandum dated May 11, 2001, NRR and RES developed a joint action plan to address the conclusions and recommendations in the ACRS report. This action plan and resolution of GSI 163 was later incorporated into the NRC Steam Generator Action Plan, the status of which was presented to the Commission in SECY-03-0080 and discussed at a Commission meeting on May 19, 2003. (A copy of the NRC SG Action Plan, milestones, schedule, and current status can be found on the NRC public web page.)

The scope of the DPO issues and followup SG Action Plan tasks relevant to GSI 163 are those which could potentially impact needed SG tube inspection, maintenance and repair activities. In contrast, any needed actions to address containment bypass scenarios due to tube failure during severe accidents would likely involve changes to accident management procedures and perhaps hardware modifications not involving the steam generators and, therefore, are outside the scope of GSI-163. Similarly, iodine spiking and radiological assessment issues are outside the scope of GSI-163. DPO issues outside the scope of GSI-163 will continue to be managed under the SG Action Plan umbrella.

Current Status: Replace with the following:

In response to NRC Generic Letter 2006-01, "Steam Generator Tube Integrity and Associated Technical Specifications," all PWR licensees have submitted license amendment applications to change their technical specifications in accordance with TSTF-449. The staff has approved and issued amendments for 48 PWRs. The staff has targeted December 31, 2007 for issuing amendments for the remaining PWRs.

SG Action Plan tasks relevant to resolution of GSI-163 have been completed with the exception of task 3.1.k. SG Action Plan task 3.1.k involves evaluation of the conditional probabilities of multiple tube failures for risk assessment pertaining to SG alternate repair criteria. To support the needs of the GSI, the staff is actually performing this task from the broad standpoint of the integrity of the overall tube rather than being narrowly focused on tube locations with alternate repair criteria. The staff has targeted January 31, 2008 for completing this task.

The staff is targeting April 30, 2009 for issuing memorandum to the EDO documenting the resolution of GSI-163 and the supporting technical bases.

Affected Documents: Replace with the following:

- NUREGs 1430 - 1432 regarding Standard Technical Specifications
- NRC Generic Letter 2006-01
- plant specific technical specifications for PWRs

Problem / Resolution: No Change.

Reasons for Schedule Changes: Two reasons:

1. As approved by the Commission in an SRM dated December 21, 1998, development of new technical specifications for ensuring SG tube integrity involved a cooperative effort between the NRC staff and the industry. That it took seven years to reach agreement with the industry is attributable to the complexity of the issues involved and that consensus building within the industry itself proved to be a time consuming process.

2. ACRS findings in NUREG-1740 necessitated followup tasks relating to GSI-163, the last of which is not scheduled for completion until January 2008.

Milestones and Their Due Dates: Add the following new milestones:

Approve TSTF-449. Target: 05/2005, Actual: 05/2005

Issue revised technical specifications - all PWRs. Target: 12/31/2007

Brief ACRS on proposed GSI resolution. Target: 11/30/2008

Revise schedules for following milestones:

Completion of GSI-related Joint Action Plan Issues

Original Target: 03/31/2005
Current Target: 01/31/2008

Close out GSI with Memo to EDO

Original Target: 02/28/2001
Current Target: 04/30/2009