



MITSUBISHI HEAVY INDUSTRIES, LTD.

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TOKYO, JAPAN

February 15, 2013

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Attention: Mr. Jeffrey A. Ciocco

Docket No. 52-021
MHI Ref: UAP-HF-13034

**Subject: Updated Closure Plan for US-APWR Seismic and Structural Analyses –
Schedule Improvement**

References: (1) Letter (ML12290A009 / MHI Ref: UAP-HF-12280) from Y. Ogata (MHI) to U.S. NRC, "Updated Closure Plan for US-APWR Seismic and Structural Analysis" dated October 12, 2012

With this letter, Mitsubishi Heavy Industries, Ltd. (MHI) is providing an update to the Seismic Closure Plan (SCP) that was submitted in Reference 1. MHI has been submitting scheduled design information in accordance with the SCP. However, as the SCP has progressed, additional adjustments of some proposed submittal dates have been needed. These adjustments have resulted from the impacts of recent major submittals and the technical resources that were needed to support them. Consequently, MHI has reevaluated the remaining submittal dates and the dates when calculations will be available for audit. The results of this reevaluation are contained in the attached tables.

The revised dates for some of the products listed in the SCP tables are identified with revision bar notations. For completeness, all the tables that were previously attached to Reference 1 are included as attachments to this letter, although some tables are not impacted. As for Table 4-1 and Table 4-2 in Attachment 4, a "Group" column was added to clarify the relationship of each RAI responses to each Technical Report and technical area.

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LRO

The submittal of a revision to Technical Report "Evaluation Results of US-APWR Fuel System Structural Response to Seismic and LOCA Loads", MUAP-08007 will be included as part of the Fuel Seismic Closure Plan.

Please contact Mr. Joseph Tapia, General Manager of Licensing Department, Mitsubishi Nuclear Energy Systems, Inc. if the NRC has questions concerning any aspect of this letter. His contact information is provided below.

Sincerely,

A handwritten signature in black ink, appearing to read "Y. Ogata".

Yoshiki Ogata,
Director – APWR Promoting Department
Mitsubishi Heavy Industries, LTD.

CC: J. A. Ciocco
J. Tapia

Contact Information

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Attachment 1

Submittal Dates of Technical Reports

Table 1-1	Technical Reports for DCD Sections 3.7 and 3.8
Table 1-2	Technical Reports to be Incorporated or Withdrawn
Table 1-3	Technical Reports Related to Steel Concrete (SC) Modules
Table 1-4	Technical Reports for Other DCD Sections

Table 1-1**Technical Reports for DCD Sections 3.7 and 3.8**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-10006	Soil-Structure Interaction Analyses and Results for the US-APWR Standard Plant	<p>Rev. 1:</p> <ul style="list-style-type: none"> - Results of SSI Analysis for R/B (LMSM) and PS/B (FE model) <p>Rev. 2: Oct 2011 Completed (UAP-HF-11369)</p> <ul style="list-style-type: none"> - Results of SSI Analysis for R/B (updated to FE model) and PS/B (updated design and stiffness) based on the updated MUAP-10001 - Update reference to SASSI to clarify that version 2.3.0 includes module updates through Nov 2009 - Update to reflect gap assessment - Update to include appendix containing parametric study of soil profile for compliance with SRP 3.7.2 - Update to include missing soil properties observed by NRC staff - Update discussion on gaps between buildings 	<p>Rev. 3</p> <p>General:</p> <ul style="list-style-type: none"> - Add description of R/B Complex, comprising the R/B, PCCV, CIS, A/B, and East & West PS/Bs and Common basement and Essential Service Water Pipe Chase (ESWPC) - Methodology and results of sliding stability has been removed and placed in MUAP-12002 - Incorporate the analysis methodology from MUAP-10001, MUAP-11001, and MUAP-11011 including soil profiles and time histories, as applicable - Reformat to better present information <ul style="list-style-type: none"> Part 1: Generic site assumptions <ul style="list-style-type: none"> - Multiple soil columns / CSDRS (unchanged) / Time histories / Engineered fill/Backfill Part 2: Model development and validation <ul style="list-style-type: none"> - Static, Dynamic model / SSSI model Part 3: Results <ul style="list-style-type: none"> - SSI / SSSI / ISRS/forces - Update to reflect results of SSI for R/B complex and SSSI analysis to confirm the effect from Turbine Island (TI) to R/B complex 	November 2012 Completed (UAP-HF-12310)

Table 1-1**Technical Reports for DCD Sections 3.7 and 3.8**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-11002	T/B Model Properties, SSI Analyses, and Structural Integrity Evaluation	Rev. 0: - Description of Model for T/B (FE model) - Results of SSI for T/B Rev. 1: Oct 2011 Completed (UAP-HF-11369) - Description of Model for T/B - Results of SSI for T/B with the T/B - Methodology and Results of Sliding Stability - Methodology and Results of Overturning Stability - Description of Displacement of T/B - Update to reflect RAls 766-5819 (03.07.02) and 767-5821 (03.08.04)	Rev. 2 - Update the methodology for TI, comprised of the turbine building (T/B) and electrical room (E/R) - Results of SSI for combined TI foundation - Methodology and Results of Overturning Stability - Description of Displacement for TI - Methodology and Results of Sliding Stability are superseded by MUAP-12002	February 2013
MUAP-11007	Ground Water Effects on SSI	Rev. 0: June 2011 Completed (UAP-HF-11196) - Methodology of Sliding Stability - Methodology of Sensitivity Study on Water Table Effect - Methodology on Sensitivity Study on Embedment Effect Rev. 1: Oct 2011 Completed (UAP-HF-11196) - Revise due to updated time history and soil profile inputs - Results of Sensitivity Study on Water Table Effect (FE Model) - Results of Sensitivity Study on Embedment Effect (LMSM) - Results of Sliding Stability (FE Model)	Rev. 2: - Description of Ground Water Effect - Results of Sliding Stability (FE Model) removed and placed in MUAP-12002 - Embedment sensitivity study removed and document title revised	November 2012 Completed (UAP-HF-12311)

Table 1-1**Technical Reports for DCD Sections 3.7 and 3.8**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-12002	Sliding Evaluation and Results	Rev.0: May 2012 Completed (UAP-HF-12145) - Description of Methodology of Sliding Evaluation for R/B complex and TI	Rev.1 - Description of Results of Sliding Evaluation for R/B complex and TI - Includes 1.1 amplification of input signal - Includes sensitivity studies for <ul style="list-style-type: none">o Coefficient of frictiono Percentage live loado water table level - Incorporates response to RAI 960-6709	January 2013 Completed (UAP-HF-13009)

Table 1-2**Technical Reports to be Incorporated or Withdrawn**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-10001	Seismic Design Bases of the US-APWR Standard Plant	<div>Rev. 2:<ul style="list-style-type: none">- Description of Model for R/B (LMSM) and PS/B (FE model)- Validation of Model for R/B (LMSM) and PS/B (FE model)- Methodology of Concrete Cracking Effects</div> <div>Rev. 3: June 2011 Completed(UAP-HF-11179)<ul style="list-style-type: none">- Description of Model for R/B (updated to FE model) and PS/B (update for design changes and stiffness)- Validation of Model for R/B (updated to FE model) and PS/B (update to reflect minor design changes)- Update Methodology of Concrete Cracking Effects (including stiffness reduction, damping values)- Update reference to SASSI to clarify that version 2.3.0 includes module updates through Nov 2009</div> <div>Rev. 4: Oct2011 Completed(UAP-HF-11369)<ul style="list-style-type: none">- Update development of soil profiles and strain compatible properties- Update time history methodology- Update description of structures and layout</div>	- Content will be incorporated into MUAP-10006 Rev. 3	N/A

Table 1-2**Technical Reports to be Incorporated or Withdrawn**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-11001	A/B Model Properties, SSI Analyses, and Structural Integrity Evaluation	Rev. 0: - Description of Model for A/B (FE model) - Results of SSI for A/B Rev. 1: June 2011 Completed (UAP-HF-11182) - Description of Model for A/B (unchanged) - Methodology of Stability and relative displacement for A/B (previously excluded)	- Content will be incorporated into MUAP-10006 Rev. 3	N/A
MUAP-11006	Validation of LMSM for R/B Complex	Rev. 0: June 2011 Completed (UAP-HF-11196) - Description of Model for R/B (LMSM) – used only for sliding stability and sensitivity studies - Validation of Model for R/B (LMSM)	- Withdraw since LMSM is changed to FEM	N/A
MUAP-11011	Effects of Structure-Soil-Structure Interaction (SSSI) on Standard Seismic Design of US-APWR Plant	Rev. 0: June 2011 Completed (UAP-HF-11196) - Methodology of SSSI Analysis	- Content will be incorporated into MUAP-10006 Rev. 3	N/A
MUAP-08002	PS/B Enhanced Information for PS/B Design	Rev. 0: - Provide results of the lumped mass stick model analysis of east and west PS/Bs	- Content will be incorporated into MUAP-10006 Rev. 3 - FEM of PS/Bs now part of R/B complex	N/A

Table 1-2**Technical Reports to be Incorporated or Withdrawn**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-08005	Dynamic Analysis of the Coupled RCL-R/B-PCCV-CIS Lumped Mass Stick Model	Rev. 0: <ul style="list-style-type: none">- Provide dynamic seismic analysis of the coupled system including the RCL, R/B, PCCV, and CIS.- Frequencies and mode shapes of dominant modes- Acceleration and displacement responses of structures- Forces and moments in selected building structures- ISRS	<ul style="list-style-type: none">- Models have already changed from LMSM to FEM and contents were incorporated into MUAP-10001 Rev. 4- MUAP-10001 Rev. 4 is being incorporated into MUAP-10006 Rev. 3	N/A

Table 1-3**Technical Reports Related to Steel Concrete (SC) Modules**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-11005	Research Achievements of SC Structure and Strength Evaluation of US-APWR SC Structure Based on 1/10 th Scale Test Results	Rev. 0: - Collection of research references - Evaluation of 1/10 th Scale Test	Rev. 1: - Additional research references - Incorporate discussion from RAI responses	December 2012 Completed (UAP-HF-12330)
MUAP-11013	Design Criteria for SC Modules	Rev. 0: June 2011 Completed (UAP-HF-11196) - Design Criteria for SC modules - Methodology for SC modules	Rev. 2 - Update Summary of Physical Test Results - Update Summary of Analytical Results (If necessary) - Incorporate discussion from RAI responses	February 2013
		Rev. 1: August 2011 Completed (UAP-HF-11265) Further clarify design approach for the CIS (ACI 349 methodology)		
MUAP-11018	CIS: Stiffness and Damping for Analysis	Rev. 0: [Task 1-A] August 2011 Completed (UAP-HF-11256) - Applied stiffness and damping for each part of CIS	Rev. 1 - Incorporate discussion from RAI responses - Incorporate discussion due to update of Thermal Condition	February 2013
MUAP-11019	CIS: SC Wall Design Criteria (For In-Plane and Out-of-Plane Behavior)	Rev. 0: [Task 2-A] September 2011 Completed (UAP-HF-11316) - Design criteria for in-plane behavior - Design criteria for out-of-plane behavior - Design criteria for interaction equation - Scope and description of additional testing	Rev. 1 - Incorporate discussion from RAI responses - Summary of revised tie-bar configuration - Incorporate pressurizer compartment slenderness calculation	January 2013 Completed (UAP-HF-13007)

Table 1-3**Technical Reports Related to Steel Concrete (SC) Modules**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-11020	CIS: Anchorage, Connection, and Section Design and Detailing	Rev. 0: [Task 2-C, 2-D (excluding design adequacy check)]September 2011Completed(UAP-HF-11335) <ul style="list-style-type: none">- Design criteria for anchorage- Design criteria for connections- Design criteria for section design and detailing- Scope and description of additional testing	Rev. 1 <ul style="list-style-type: none">- Incorporate discussion from RAI responses	February 2013
MUAP-12006	Steel-Concrete (SC) Wall Fabrication, Construction and Inspection	N/A	Rev. 0 <ul style="list-style-type: none">- Includes the outline of fabrication, construction, transportation, erection, inspection and QA/QC for Steel-Concrete (SC) walls	February 2013

Table 1-4**Technical Reports for Other DCD Sections**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-08012*	Sump Strainer Stress Report	Rev. 1: - Stress Results based on SSI Analysis for R/B (LMSM)	Rev. 2: - Stress Results based on SSI Analysis for R/B Complex (FEM)	June 2013
MUAP-07033*	Mechanical Analysis for US-APWR New and Spent Fuel Racks	Rev. 0: - Stress Results based on SSI Analysis for R/B (LMSM)	Rev. 1: - Stress Results based on SSI Analysis for R/B Complex (FEM)	December 2013
MUAP-07032*	Criticality Analysis for US-APWR New and Spent Fuel Racks	Rev.1 - Critical analysis of New and Spent Fuel Racks which component structure is based on SSI analysis for R/B (LMSM)	Rev.2 - Critical analysis of New and Spent Fuel Racks based on the component structure is described in MUAP-07033Rev.1	December 2013
MUAP-09014*	Thermal-Hydraulic Analysis for US-APWR Spent Fuel Racks	Rev.0 Thermal-hydraulic analysis of the spent fuel rack (SFRs) which component structure is based on SSI analysis for R/B (LMSM)	Rev.1 - Thermal-hydraulic analysis of the spent fuel racks (SFRs) which component structure is described in MUAP-07033 Rev.1	December 2013
MUAP-08007*	Evaluation Results of US-APWR Fuel System Structural Response to Seismic and LOCA Loads	Rev. 3: - Stress Results based on SSI Analysis for R/B (LMSM)	Rev. 4: - Stress Results based on SSI Analysis for R/B (FEM)	July 2013

Table 1-4**Technical Reports for Other DCD Sections**

Doc. #	Title	Current Contents	Updates and Future Contents	Date to NRC
MUAP-10023*	Initial Type Test Result of Class 1E Gas Turbine Generator System	Rev. 5: - Revised to incorporate a change to Appendix L based on MHI's response to RAI 876-6210 that was omitted from the previous revision	Rev. 6 - Re-evaluation of the test results based on SSI Analysis for PS/B (R/B complex). - Stress Results of the other components (e.g., the Generator and Air Receiver Assembly) based on SSI Analysis for PS/B (R/B complex)	August 2013
MUAP-09002	Summary of Seismic and Accident Load Conditions for Primary Components and Piping	Rev.2 - Seismic and accident loads conditions for PSC design specifications	Rev.3 - Revise the seismic loads based on the SSI Analysis for R/B Complex (FEM)	July 2013

Notes)

*: MHI will examine the seismic design changes and layout changes to determine if revisions are required. If a revision is required, the report will be submitted to NRC.

Attachment 2

Dates of Calculation Reports

Table 2-1	Calculations in Support of Noted Technical Report or RAI Response (Available for Audit)
Table 2-2	Calculations in Support of Basic Structural Design (Available for Audit)
Table 2-3	Calculations – To be incorporated or withdrawn
Table 2-4	Calculations for Steel Concrete (SC) Modules and Other SSCs (Available for Audit)

Table 2-1 Calculations in Support of Noted Technical Report, DCD Section, or RAI Response (Available for Audit)				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
NIC-13-05-113-001 (MUAP-10006)	Dynamic FE Model Development and Validation of the R/B Complex	Rev. 0: - Dynamic FE Model Development of R/B Complex	Rev. 1: - Update to the Dynamic FE Model Development and validation of the R/B Complex for AIA/ESWPT modifications	November 2012 Completed
NIC-13-05-113-002 (MUAP-10006)	R/B Complex Standard Plant SSI Analysis	N/A	Rev. 0: - Calculation documenting the Soil-Structure Interaction analyses of the R/B Complex with reduced stiffness (lower bound) SSE damping and full stiffness (upper bound) OBE damping	November 2012 Completed
NIC-13-05-205-001 (MUAP-12002)	Non-Linear Sliding Analysis of the Standard Plant R/B Complex	N/A	Rev. 0:	January 2013 Completed
NIC-13-05-205-002	Seismic Stabilities (Overturning and Bearing Pressure) of the Standard Plant R/B Complex	N/A	Rev. 0: Input for DCD section 3.8.5	January 2013 Completed
SPS-13-05-113-019	Lateral Earth Pressure	N/A	Rev. 0: Input for DCD section 3.8.5	January 2013 Completed
SPS-13-05-113-010 (MUAP-11007)	Ground Water Table Effect on SSI Response of the US-APWR Standard Plant R/B Complex	N/A	Rev. 0: - Ground Water Table Effect on Seismic Soil-Structure Interaction Response of the US-APWR Standard Plant R/B Complex	November 2012 Completed
SPS-13-05-113-011 (RAI 812-5938, Q3.7.2-109)	SSI Analysis: Flexible Volume Method versus Modified Subtraction Method Study	N/A	Rev. 0:	December 2012 Completed

Table 2-1 Calculations in Support of Noted Technical Report, DCD Section, or RAI Response (Available for Audit)				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
SPS-13-05-113-006 (MUAP-10006)	Standard Plant Soil Profiles	Rev. 0: - Standard Plant Soil Profiles developed for surface mounted structures	Rev. 1: Standard Plant Soil Profiles developed for surface mounted structures updated for an embedded structure	November 2012 Completed
SPS-13-05-113-007 (MUAP-10006)	Selection of Time History Seeds	N/A	Rev. 0:	November 2012 Completed
SPS-13-05-113-008 (MUAP-10006)	Structure-Soil-Structure Interaction Analysis: R/B Complex and T/B	N/A	Rev. 0: - Standard Plant SSSI Analysis	November 2012 Completed
SPS-13-05-205-001	Short Term and Long Term Settlement Analysis of Standard Plant Structure	N/A	Rev. 0: - Update to include changes to the building layout - Input for DCD section 3.8.5	January 2013 Completed
SPS-13-05-113-009 (MUAP-10006)	SSI and SSSI Analysis – ISRS Results	N/A	Rev. 0:	November 2012 Completed
SPS-13-05-113-012 (MUAP-10006)	Development of Target Power Spectral Densities Compatible with DCD CSDRS	N/A	Rev. 0:	November 2012 Completed
SPS-13-05-113-013 (MUAP-10006)	Development of Design Basis Time Histories using Northridge Mount Baldy Seed	N/A	Rev. 0:	November 2012 Completed
SPS-13-05-113-018 (MUAP-12002)	Development of Time Histories for Non-Linear Sliding	N/A	Rev. 0:	January 2013 Completed

Table 2-1 Calculations in Support of Noted Technical Report, DCD Section, or RAI Response (Available for Audit)				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
TUB-13-05-113-001 (MUAP-12002)	Turbine Building Standard Plant SSI Analysis for Non-Linear Sliding	N/A	Rev. 0:	January 2013 Completed
TUB-13-05-205-001 (MUAP-12002)	Non-Linear Sliding Analysis of the Standard Plant TI	N/A	Rev. 0:	January 2013 Completed

Table 2-2 Design Reports and Calculations in Support of Basic Structural Design (Available for Audit)				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
Design Reports				
REB-13-05-160-001	Design Report for the Basic Design of the US-APWR R/B Complex	Rev. 0: - Basic Design Results based on the seismic design forces obtained by LSM	Rev. 1: Basic Design Results based on the seismic design forces obtained by FEM	May 2013
RBF-13-05-160-002	Design Report for the Basic Design of the US-APWR R/B Complex Foundation	N/A	Rev. 0: Basic Design Results based on the seismic design forces obtained by FEM	May 2013
CIS-13-05-160-003	Design Report for the Basic Design of the US-APWR Containment Internal Structure	Rev. 0: - Basic Design Results based on the seismic design forces obtained by LSM	Rev. 1: Basic Design Results based on the seismic design forces obtained by FEM	May 2013
PCV-13-05-113-001	Design Report for the Basic Design of the US-APWR PCCV	N/A	Rev. 0: Basic Design Results based on the seismic design forces obtained by FEM	May 2013
Calculations				
REB-13-05-230-001	Basic Analysis of R/B Complex	Rev. 0: - Basic Design Results based on the seismic design forces obtained by LSM	Rev. 1: - Basic Analysis Results based on the seismic design forces obtained by FEM	May 2013
REB-13-05-230-002	Basic Design of R/B Complex	N/A	Rev. 0: - Basic Design Results based on the seismic design forces obtained by FEM	May 2013

Table 2-2 Design Reports and Calculations in Support of Basic Structural Design (Available for Audit)				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
CIS-13-05-230-004	Basic Analysis and Design of CIS	Rev. 0: - Basic Design Results based on the seismic design forces obtained by LSM	Rev. 1: - Basic Design Results based on the seismic design forces obtained by FEM - Check of the design adequacy against the enhanced detailed design criteria reports, including design check of critical sections - Tasks 1-B (Seismic analysis), 2-B (Wall and slab design), 2-C (Anchorage/connection design) and 2-D (SC section detailing) - Calculation for SC Module Anchors - Calculation for Rebar Coupler for CIS	May 2013
RBF-13-05-205-001	Basic Analysis of the US-APWR NI (including stability evaluation)	Rev. 0: - Basic Design Results based on the seismic design forces obtained by LSM	Rev. 1: - Basic Design Results based on the seismic design forces obtained by FEM	May 2013
RBF-13-05-205-002	Basic Design of Common Basemat (ASME)	Rev. 0: - Basic Design of R/B Foundation (ASME)	Rev. 1: - Basic Design of Common R/B Basemat (ASME)	May 2013
PCV-13-05-230-013 (DCD)	PCCV Liner Strain & Anchor Displacement Near Discontinuities	Rev. 0: June 2011 - Detailed calculation of strain results near penetrations	Rev. 1: - Detailed calculation of strain results near penetrations	May 2013
PCV-13-05-230-004 (PCV-13-05-230-003)	Basic Design Verification of PCCV	Rev. 2: - Basic Design Verification of PCCV	Rev. 3: - Basic Design Verification of PCCV	May 2013

Table 2-2**Design Reports and Calculations in Support of Basic Structural Design (Available for Audit)**

Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
PCV-13-05-230-005 (PCV-13-05-230-003)	PCCV Thermal Analysis	Rev. 0: - PCCV Thermal Analysis	Rev. 1: - PCCV Thermal Analysis	May 2013
PCV-13-05-230-006 (PCV-13-05-230-003)	PCCV Creep Evaluation	Rev. 0: - PCCV Creep Evaluation	Rev. 1: - PCCV Creep Evaluation	May 2013
PCV-13-05-230-007 (PCV-13-05-230-003)	PCCV Tendon Prestress Evaluation	Rev. 1: - PCCV Tendon Prestress Evaluation	Rev. 2: - PCCV Tendon Prestress Evaluation	May 2013
PCV-13-05-230-008	Basic Design of PCCV Liner System	Rev. 0: - PCCV Liner Anchor Design	Rev. 1: - PCCV Liner Anchor Design	May 2013
PCV-13-05-230-010	PCCV Buttress Design	Rev. 1: - PCCV Buttress Design	Rev. 2: - PCCV Buttress Design	May 2013
PCV-13-05-230-011	PCCV Equipment Hatch and Airlock Analysis	Rev. 2: - PCCV Equipment Hatch and Airlock Analysis	Rev. 3: - PCCV Equipment Hatch and Airlock Analysis	May 2013
PCV-13-05-230-012	PCCV Equipment Hatch and Airlock Design	Rev. 1: - PCCV Equipment Hatch and Airlock Design	Rev. 2: - PCCV Equipment Hatch and Airlock Design	May 2013
PCV-13-05-271-001	Concrete Calculation for Evaluation of Local Stresses and Rebar Requirements at Sleeve Penetrations	Rev. 1: - Concrete Calculation for Evaluation of Local Stresses and Rebar Requirements at Sleeve Penetrations	Rev. 2: - Concrete Calculation for Evaluation of Local Stresses and Rebar Requirements at Sleeve Penetrations	May 2013
PCV-13-05-272-001	Design of PCCV Mechanical Penetrations	Rev. 1: - Type I through Type V General Penetration for Small Bore Piping and Electrical Penetrations	Rev. 2: - Type I through Type V General Penetration for Small Bore Piping and Electrical Penetrations	May 2013

Table 2-2 Design Reports and Calculations in Support of Basic Structural Design (Available for Audit)				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
PCV-13-05-272-002	Design of PCCV Electrical and Ventilation Penetrations	Rev. 1: - Large Bore Mechanical Pipe Penetrations	Rev. 2: - Large Bore Mechanical Pipe Penetrations	May 2013
PCV-13-05-272-003	Design of PCCV Fuel Transfer Tube Penetration	Rev. 1: - Fuel Transfer Tube Penetration	Rev. 2: - Fuel Transfer Tube Penetration	May 2013
PCV-13-05-272-004	PCCV Penetration Design Basis Calculation	Rev. 1: - Main Steam, Main Feedwater and Blowdown Pipe Penetrations	Rev. 2: - Main Steam, Main Feedwater and Blowdown Pipe Penetrations	May 2013
PCV-13-05-262-001	Calculation for Attachment Loading to the Liner Plate (Loading Calculation)	Rev. 1: - Calculation for Attachment Loading to the Liner Plate (Loading Calculation)	Rev. 2: - Calculation for Attachment Loading to the Liner Plate (Loading Calculation)	May 2013
PCV-13-05-262-002	Calculation for 4 Typical Attachments to Containment Wall Liner Plate	Rev. 1: - Calculation for 4 Typical Attachments to Containment Wall Liner Plate	Rev. 2: - Calculation for 4 Typical Attachments to Containment Wall Liner Plate	May 2013
PCV-13-05-640-001 (GIS-13-05-230-004)	Calculation for SC Module Anchors	Rev. 1: - Calculation for SC Module Anchors	Rev. 2: - Calculation for SC Module Anchors	May 2013
PCV-13-05-640-002 (Supports: CIS-13-05-230-004)	Calculation for Rebar Coupler for CIS	Rev. 1: - Calculation for Rebar Coupler for CIS	Rev. 2: - Calculation for Rebar Coupler for CIS	May 2013

Table 2-3**Calculations – To be incorporated or withdrawn**

Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
REB-13-05-113-004 (MUAP-10006)	R/B Complex Standard Plant SSI Analysis	Rev. 0: October 2011 - Calculation documenting the runs of the R/B, PCCV analyses with reduced stiffness (lower bound) SSE damping and full stiffness (upper bound) OBE damping and CIS analysis with reduced stiffness and associated damping	- Content will be incorporated into NIC-13-05-113-002	N/A
PSB-13-05-113-002 (MUAP-10006)	PS/B Complex Standard Plant SSI Analysis	Rev. 0: - PS/B Standard Design SSI Analysis	- Content will be incorporated into NIC-13-05-113-002	N/A
		Rev.1: October 2011 - Calculation documenting the runs of the R/B and PS/B analyses with reduced stiffness (lower bound) SSE damping and full stiffness (upper bound) OBE damping		
REB-13-05-113-003 (MUAP-10001)	Dynamic FE Model Development and Validation of R/B	Rev. 0: - Dynamic FE Model Development of R/B	- Content will be incorporated into NIC-13-05-113-001	N/A
REB-13-05-205-003 (Short term & long term settlement); (MUAP-11001, 11002, and 10006)	Subgrade Modeling in Finite Element Analysis-- Settlement Calculation	Rev. 0: October 2011 - Long term deformation module for sand sites and clay sites - Long term displacements for Soil Profile 270-500 considering two types of subgrade –sand and clay - Settlements of all structures including dishing effects and effects of primary consolidation (clay) - Tilt of all structures from long term loads for gap - Differential settlements from long term	- Content will be incorporated into SPS-13-05-205-001	N/A

Table 2-3 Calculations – To be incorporated or withdrawn				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
		loads (between adjacent structures and for each structure) - Update to include changes to the building layout - Update to include changes resulting from new time history seed - Update to reflect changes in soil profiles		
REB-13-05-205-004 (Seismic & static bearing pressure); (MUAP-11001, 11002, and 10006)	Subgrade Modeling in Finite Element Analysis–Bearing Pressure Demand Calculation	Rev. 0: October 2011 - Demand and allowable bearing pressures	- Content will be incorporated into NIC-13-05-205-002	N/A
	New Calculation Report – Documenting Reduced Stiffness of CIS	Void – Refer to REB-13-05-113-004: October 2011	- Content will be incorporated into NIC-13-05-113-001	N/A
PCV-13-05-230-009 (PCV-13-09-230-004, 010, 012)	Postprocessor Theory	N/A	Delete	N/A
PCV-13-05-277-001	Preliminary Calculation for Polar Crane Runway Girder Calculation	Rev. 1: - Preliminary Calculation for Polar Crane Runway Girders	Delete	N/A
PCV-13-05-277-002	Preliminary Design of PCCV Polar Crane Bracket Structural Steel and Anchorage to Concrete	Rev. 1: - Preliminary Calculation for Polar Crane Support Brackets	Delete	N/A
PCV-13-05-277-003	Anchorage Design for Polar Crane Bracket	Rev. 0: - Anchorage Design for Polar Crane Bracket	Delete	N/A

Table 2-3 Calculations – To be incorporated or withdrawn				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
REB-13-05-113-001 (MUAP-11006)	Lumped Mass Stick Model Development of R/B	Rev. 0: - Lumped Mass Stick Model Development of R/B	Delete	N/A
PSB-13-05-230-002 (MUAP-10006)	Design Report for the Basic Design of the US- APWR PS/B	Rev. 0: - Basic Design Results based on the seismic design forces obtained by FEM	- Results incorporated in the revision of REB-13-05-230-001	N/A
PSB-13-05-113-001 (MUAP-10001)	Dynamic Model Development and Validation of PS/B	Rev. 0: - Dynamic Model Development and Validation of PS/B	- Results incorporated in the revision of MUAP-10006	N/A
PSB-13-05-113-002 (MUAP-10001 & - 10006)	PS/B Standard Design SSI Analysis	Rev. 0: - PS/B Standard Design SSI Analysis	- Results incorporated in the revision of MUAP-10006	N/A
PSB-13-05-205-001 (MUAP-11007)	Stability Evaluation of PS/B	Rev. 0: - Stability Evaluation of PS/B	- Results incorporated in the revision of MUAP-12002 for sliding and MUAP- 10006 for SSI analysis	N/A
AUB-13-05-113-001 (MUAP-11001)	Static and Dynamic Model Development and Structural Integrity Evaluation of A/B	Rev. 0: - Static and Dynamic Model Development and Structural Integrity Evaluation of A/B	- Results incorporated in the revision of MUAP-10006	N/A
AUB-13-05-113-002 (MUAP-11001)	A/B Standard Design SSI Analysis	Rev. 0: - A/B Standard Design SSI Analysis	- Results incorporated in the revision of MUAP-10006	N/A
AUB-13-05-205-001 (MUAP-11001)	Stability Evaluation of A/B	Rev. 0: - Stability Evaluation of A/B	- Results incorporated in the revision of MUAP-12002	N/A
RB-13-05-113-002 (MUAP-10001)	R/B Standard Design SSI Analysis	Void – Refer to REB-13-05-113-004		N/A
REB-13-05-205-001		Void –Refer to RBF-13-05-205-001		N/A
REB-13-05-205-002		Void –Refer to RBF-13-05-205-002		N/A

Table 2-3 Calculations – To be incorporated or withdrawn				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
RBF-13-05-205-003		Void – Refer to RBF-13-05-205-002		N/A
PCV-13-05-641-001		Void – Refer to PCV-13-05-230-008		N/A
PCV-13-05-270-001		Void –Refer to PCV-12-05-230-013		N/A
PCV-13-05-640-001	Calculation for SC Module Anchors	Rev. 1: - Calculation for SC Module Anchors	- Content will be incorporated intoCIS- 13-05-230-004	N/A
PCV-13-05-640-002	Calculation for Rebar Coupler for CIS	Rev. 1: - Calculation for Rebar Coupler for CIS	- Content will be incorporated intoCIS- 13-05-230-004	N/A

Table 2-4 Calculations for Steel Concrete (SC) Modules and Other SSCs (Available for Audit)				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
CIS-13-15-150-002 (MUAP-11013)	1/6 th Scale Test of Primary Shield Structure: Analysis up to SSE Level Loading	Rev. 0: - Results of CIS pushover analysis up to SSE	- None Planned	N/A
CIS-13-15-150-003 (MUAP-11013)	1/6 th Scale Test of Primary Shield Structure: Analysis Beyond SSE Level Loading	Rev. 0: - Results of CIS pushover analysis beyond SSE	- None Planned	N/A
CIS-13-15-150-004 (MUAP-11013)	Benchmarked NIFE Models for SC Components: In-Plane Behavior	Rev. 0: - Benchmarking of NIFE models to SC components and primary shield - In Plane Behavior - Thermal Mechanical Behavior	- None Planned	N/A
CIS-13-15-150-005 (MUAP-11013)	Benchmarked NIFE Models for SC Components: Out-of-Plane Behavior	Rev. 0: - Benchmarking of NIFE models to SC components and primary shield - Out-of-Plane Behavior	- None Planned	N/A
CIS-13-15-150-007 (MUAP-11013)	1/10 th Scale CIS Test: Analysis up to SSE Level Loading	Rev. 0: - Benchmarking of NIFE models to 1/10 th scale CIS test up to SSE	- None Planned	N/A
CIS-13-15-150-008 (MUAP-11013)	1/10 th Scale CIS Test: Analysis Beyond SSE Level Loading	Rev. 0: - Benchmarking of NIFE models to 1/10 th scale CIS test beyond SSE	None Planned	N/A
CIS-13-15-150-010 (MUAP-11013)	US-APWR CIS Containment Internal Structure Seismic Capacity	Rev. 0: - Results of CIS pushover analysis	- None Planned	N/A

Table 2-4**Calculations for Steel Concrete (SC) Modules and Other SSCs (Available for Audit)**

Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
UAP-SGI-09001	US-APWR Design Certification Aircraft Impact Assessment	Rev 0: - Layout based on DCD Rev. 2	Rev 1: - Revision/reconciliation based on the adjusted layout	June 2013
TBD (MUAP-11002)	Steel Member Stress of T/B	N/A	Rev 0: - Check of the adequacy of steel member by checking member stress	June 2013
CIS-13-05-150-013	SC Module Out-of-plane Shear Confirmatory Physical Tests	N/A	Rev. 0: - Test 1.0: Shear Connector (Interfacial Shear) Strength Test Results	September 2012 Completed
			Rev. 1: - Test 2.0: Monotonic Out of Plane Test Results - ½ Scale (Test 2.1)	November 2012 Completed
			Rev. 2: - Test 2.0: Monotonic Out of Plane Test Results - Full Scale (Test 2.2, Specimen #1) - Test 3.0: Accident Thermal + Out of Plane Test Results	January 2013 Completed
			Rev. 3: - Full Scale (Test 2.2, Specimen #2)	February 2013
CIS-13-05-150-014	SC Module Joint Shear Strength Confirmatory Physical Test	N/A	Rev. 0: - Test 4.0: Joint Shear Strength Test Results	February 2013

Table 2-4 Calculations for Steel Concrete (SC) Modules and Other SSCs (Available for Audit)				
Doc. # (support to)	Title	Current Contents	Updates and Future Contents	Available Following Last Date
CIS-13-05-150-015	SC Module Basemat Connection Confirmatory Physical Tests	N/A	Rev. 0: - Test 5.0: SC Anchorage Test Results - Transverse Shear of SC Anchorage (Test 5.1) - Out of Plane Shear of SC Anchorage (Test 5.2) - Test 6.0: Cyclic In Plane Shear Test of SC Anchorage Test Results	February 2013

Notes:

- Since the above listed documents are internal documents, the above information is subject to change

Attachment 3

Table 3
Impacts on DCD

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
Tier 1	Tier 1 Table 2.1-1 Sheet 7 update bearing pressures and settlement to align with Section 3.8.5	X			March 2013
Tier 1	Tier 1 Figure 2.1-1 and 2.1-2 Update to match revised Figures 3.7.1-1 and 3.7.1-2	X			February 2013
Tier 1	2.2.1, 2.2.1.1, 2.2.1.3, 2.2.1.4, 2.2.1.7, 2.2.1.8 Descriptions of R/B complex, including PS/B, A/B, and AC/Bbasemats		X		February 2013
Tier 1	2.2.1.2 Update concrete strength		X		January 2013 Completed (UAP-HF-13020)
Tier 1	2.2.1.6 Full paragraph to be revised to reflect updated information, to add description of ESW pipe chase (ESWPC) as part of the standard design, and to delete reference to site-specific ESWPT Add interface requirements for gaps between ESWPC and site-specific ESWPT, if necessary			X	February 2013
Tier 1	2.2.3.1 Update (items 9 – 14) to address watertight doors between structures on the common basemat		x		February 2013
Tier 1	Tier 1 Table 2.2-1 Add ESWPC and Update table notes			X	February 2013
Tier 1	Tier 1 Layout drawings (Figure 2.2-1 thru 13)	X	X	X	February 2013

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
Tier 1	Tier 1 Layout drawings of flood barriers (Figure 2.2-14 thru 25)	X	X	X	February 2013 This will be submitted as amended response to RAI 841 on March 2013.
Tier 1	Tier 1 Table 2.2-2 Update Wall Thicknesses Update table notes	X		X	February 2013
Tier 1	Tier 1 Table 2.2-5 Update layout change			X	February 2013 This will be submitted as amended response to RAI 841 on March 2013.
Tier 1	Tier 1 Figure 2.7.3.1-1 Update ESWS schematic diagram			X	January 2013 Completed (UAP-HF-13020)
Tier 1	3.1 Update descriptions of R/B complex, including PS/B, and A/B, on common basemat				February 2013
Tier 2 1	1.2.1.7 Update description to be consistent with layout drawing changes such as R/B (1.2.1.7.2.1), PS/B (1.2.1.7.2.2) and A/B (1.2.1.7.2.5)		X		January 2013 Completed (UAP-HF-13020)
1	1.2.1.7.1 Update common basemat of R/B, A/B and PS/B		X		January 2013 Completed (UAP-HF-13020)

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
1	1.2.1.7.2.4 Clarify CDI for ESWPT design and add interface requirements if necessary			X	January 2013 Completed (UAP-HF-13020)
1	1.2 Plot Plan and Layout drawings (Figure 1.2-1 thru 1.2-51)	X	X	X	January 2013 Completed (UAP-HF-13020)
1	Table 1.6-2 Update technical report information as necessary			X	January 2013 Completed (UAP-HF-13020)
1	Table 1.6-2 Update to reflect revision to SC Module Technical Reports	X			March 2013
1	Table 1.8-1 Update the interface information of ESWPT			X	January 2013 Completed (UAP-HF-13020)
1	Table 1.8-2 Update the Section 3.7 COL Items	X			January 2013 Completed (UAP-HF-13020)
1	Table 1.8-2 Update (if necessary) the Section 3.8 COL Items	X			March 2013
1	Table 1.9-1 Update section pointers to align with Section 3.7 markups	X			February 2013
1	Table 1.9-1 Update section pointers to align with Section 3.8 markups	X			March 2013

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
1	Table 1.9.5-2 Update section pointer (sheet 7) to align with Section 3.7 markups	X			February 2013
2	Table 2.0-1 update bearing pressures and settlement to align with Section 3.8.5	X			March 2013
2	Table 2.3-2 and 2.3-3 Table 2.3.4-1 to Table 2.3.4-7 Revise the horizontal distance source to receptor, straight distance and direction receptor to source (degree) Figure 2.3-2 Site Plan with Release and Intake Locations		X	X	January 2013 Completed (UAP-HF-13020)
3	Table 3.2-4 Update to align with Tier 1 Table 2.2-1			X	February 2013
3	3.3.1.2 Update the description for Determination of Applied Forces for PS/B and A/B to reflect the layout change		X		March 2013
3	3.4 Update floor areas for Internal Flooding Analysis		X	X	February 2013 This was submitted as amended response to RAI 841 on December 2012.
3	3.4.1.3 Add discussion of ESWPC			X	February 2013
3	3.6.3.3, 3.6.3.3.4, Table 3.6-2 MS piping material may be changed to SA 106 from SA 333	X			February 2013
3	Figure 3.6-1 Update drawing to reflect wall thickness change			X	February 2013

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
3	3.7.1.1 Update the methodology of Design Ground Motion development	X			January 2013 Completed (UAP-HF-13020)
3	3.7.1.2 Expand discussion on soil damping	X			January 2013 Completed (UAP-HF-13020)
3	3.7.1.3 Update generic soil profiles	X			January 2013 Completed (UAP-HF-13020)
3	3.7.2 Revise description and methodology for seismic response analyses to address the change from multiple basemats to the new analyses with a single common basemat	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2 Update generic profiles	X			January 2013 Completed (UAP-HF-13020)
3	3.7.2.1 Revise discussion of seismic analysis to reflect latest methods	X			January 2013 Completed (UAP-HF-13020)
3	3.7.2.2 Update FE models to common basemat structure	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.2 Update natural frequencies and responses discussion based on the latest results and incorporate key results information from MUAP-10006	X	X		January 2013 Completed (UAP-HF-13020)

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
3	3.7.2.3.1 Update FE models to common basemat structure Update analytical models discussion particularly regarding bounding conditions analyses and how structural damping values are assigned in conjunction with the various bounding/stiffness conditions (cracked, uncracked)	X	X	X	January 2013 Completed (UAP-HF-13020)
3	3.7.2.3.2, 3.7.2.3.3, 3.7.2.3.4, 3.7.2.3.5, 3.7.2.3.6 Update FE models to common basemat structure and incorporate updated seismic analysis	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.3.2 Update generic soil profiles	X			January 2013 Completed (UAP-HF-13020)
3	3.7.2.3.7, 3.7.2.3.8, 3.7.2.3.9, 3.7.2.3.9.1, and 3.7.2.3.9.2 Update the description for the stiffness and mass properties and incorporate updated seismic analysis	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.3.10, 3.7.2.3.10.1, 3.7.2.3.10.2, 3.7.2.3.10.3, 3.7.2.3.10.4, and 3.7.2.3.10.5 Update FE models to common basemat structure and incorporate updated seismic analysis	X	X	X	January 2013 Completed (UAP-HF-13020)
3	3.7.2.3.11 Update FE models to common basemat structure and incorporate updated seismic analysis	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.4, 3.7.2.4.1, 3.7.2.4.2, 3.7.2.4.3, 3.7.2.4.4, 3.7.2.4.5 Revise to address how the standard design envelopes embedment effects and discussion of SSSI effects Update FE models to common basemat structure and incorporate updated seismic analysis	X	X	X	January 2013 Completed (UAP-HF-13020)
3	3.7.2.4 Update generic profiles	X			January 2013

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
3	3.7.2.4.1 Update FE models to common basemat structure	X		X	January 2013
3	3.7.2.5 Update FE models to common basemat structure and incorporate updated seismic analysis	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.6 Update FE models to common basemat structure and incorporate updated seismic analysis	X			January 2013 Completed (UAP-HF-13020)
3	3.7.2.8 Update methodology to address interaction between Cat I and non-Cat I structure	X			January 2013 Completed (UAP-HF-13020)
3	3.7.2.8.1 Update the description of AC/B to reflect the layout change of the common basemat structure	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.8.2 Update the description of T/B to reflect to the layout change of the new gap size and common basemat structure	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.8.3 Remove discussion of ESWPT since the portion of concern has become the ESWPC	X	X	X	January 2013 Completed (UAP-HF-13020)
3	3.7.2.8.4 Update the description of A/B (Cat II) over Cat I to reflect the layout change of the common basemat structure	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.8.5 Update the description of R/B, PCCV to reflect the layout change of the common basemat structure Revise the description of PS/B plan dimension	X	X		January 2013 Completed (UAP-HF-13020)

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
3	3.7.2.8.6 Remove discussion of PS/Bs since they are now on the common basemat.	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.9 Update the discussion of development of ISRS	X			January 2013 Completed (UAP-HF-13020)
3	3.7.2.12 Use of SRP Option 1 Approach 1 to develop time histories	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.2.14 Provide cross-reference to Subsection 3.8.5 for non-linear sliding evaluation methodology	X			January 2013 Completed (UAP-HF-13020)
3	3.7.3.7 Update the information about the ESWPT connection to the R/B complex		X		January 2013 Completed (UAP-HF-13020)
3	3.7.5 Update COL items of 3.7(10), 3.7(23), 3.7(25), 3.7(26) and 3.7(28) to reflect the layout change of the common basemat structure and incorporate updated seismic analysis	X	X		January 2013 Completed (UAP-HF-13020)
3	3.7.6 Update references based on new revisions of reports and new technical reports	X			January 2013 Completed (UAP-HF-13020)

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
3	3.7 Tables and Figures Revise Table 3.7.1-1 through 3.7.1-7 to update time history and soil profile changes Revise Table 3.7.2-1 to describe seismic analysis programs Revise Table 3.7.2-2 to reflect the concrete stiffness Revise Table 3.7.2-3 for damping properties Revise Figures 3.7.1-1 thru 3.7.1-8 to update the time history Revise Figure 3.7.2-1 thru 3.7.2-12 modeling changes to reflect layout changes to common basemat	X	X	X	January 2013 Completed (UAP-HF-13020)
3	3.8.1.3.1 Update thermal load discussion to incorporate new curves.	X			March 2013
3	3.8.1.4 (and subsections) Update based on latest design information based on the technical Report	X			March 2013
3	3.8.1.6 Concrete design compressive strength for the common basemat changed to 5,000 psi from 4,000 psi.	X			January 2013 Completed (UAP-HF-13020)
3	3.8.1.6 MS piping material may be changed to SA 106 from SA 333	X			March 2013
3	3.8.3 (General) Update information on SC modules based on the results of the tests and MUAP updates	X			March 2013
3	3.8.4 Update for combined structure		X		March 2013
3	3.8.4.1 (and subsections) Update for combined structure		X		March 2013
3	3.8.4.1.3 Provide description of methodology used for stability evaluations	X		X	February 2013

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
3	3.8.4.3.3 Discuss dynamic soil pressure induced due to T/B and R/B sliding	X			March 2013
3	3.8.4.4.1 (and subsections) Update R/B for critical sections along with figures and tables	X	X	X	March 2013
3	3.8.4.4.2 (and subsections) Update PS/Bs for critical sections along with figures and tables	X	X	X	March 2013
3	3.8.4.4.3 Update to discuss calculation of lateral earth pressure from T/B and R/B sliding)	X			March 2013
3	3.8.4.6.1.1 Revise concrete strength	X			January 2013 Completed (UAP-HF-13020)
3	3.8.5.1 (and subsections) Update foundation description to common basemat (R/B Complex, A/B, east and west PS/B)	X	X		March 2013
3	3.8.5.4.1 Update embedment effects discussion Update models soil layers and bearing pressures	X			March 2013
3	3.8.5.4.1 Update generic profiles	X			February 2013
3	3.8.5.4.2 Update to discuss combined basemat	X	X		March 2013
3	3.8.5.4.3 Update reference to Technical Report	X			March 2013
3	3.8.5.4.4 Revise analyses of settlement and bearing capacity discussion as required to reflect latest methodology	X			March 2013

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
3	3.8.5.4.5 Update to reflect combined basemat		X		March 2013
3	3.8.5.5, 3.8.5.5.2 Update stability discussion adding non-linear sliding methodology Update models to common basemat structure	X			March 2013
3	3.8.6 Update COL items as appropriate based on changes to Section 3.8.1 - 3.8.5	X			March 2013
3	3.8.7 Update references as appropriate based on changes to Section 3.8.1 - 3.8.5	X			March 2013
3	Tables 3.8.1-1 Concrete design compressive strength for the common basemat changed to 5,000 psi from 4,000 psi	X			January 2013 Completed (UAP-HF-13020)
3	Table 3.8.1-3 Revise Tables 3.8.1-3 to reflect the layout changes for the common basemat	X	X	X	March 2013
3	Tables 3.8.3-1 and 3.8.3-2 Revise to reflect layout changes		X		March 2013
3	Tables 3.8.3-5 and 3.8.3-6 Revise to include connections and update of summary of analysis, respectively	X			March 2013
3	Tables 3.8.4-1 thru 3.8.4-14 Revise as necessary to Update wall thickness and parameters and incorporate any changes from revision of the SC module technical reports			X	March 2013
3	Table 3.8.5-2 Update Concrete design compressive strength	X			January 2013 Completed (UAP-HF-13020)

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
3	Table 3.8.5-4 and 3.8.5-5 Update as necessary to reflect updated basemat parameters and incorporate any changes from revision of the SC module technical reports			X	March 2013
3	3.8.1 Figures Revise 3.8.1-1 sheet 3 for increased thickness of penetrations Revise 3.8.1-5 to reflect seismic related change. Revise Figures 3.8.1-8 (sheet 13 of 17), 3.8.1-8 (sheet 14 of 17), and 3.8.1-8 (sheet 15 of 17) to reflect PCCV wall thickness change Revise Figures 3.8.1-9 to reflect layout changes. Revise Figure 3.8.1-10 – 3.8.1-13 to align with update thermal analysis	X	X	X	March 2013
3	3.8.3 Figures Revise Figures 3.8.3-6 (Sheet 6 of 7), 3.8.3-6 (Sheet 7 of 7), 3.8.3-9 to reflect the layout changes to common basemat and changes to concrete force, thickness of PCCV penetrations and R/B walls Revise Figures 3.8.3-7, 3.8.3-10 and 3.8.3-11 to include updates to connections, model and critical locations, respectively	X	X	X	March 2013
	3.8.4 Figures Revise Figures 3.8.4-1, 3.8.4-2, 3.8.4-3, 3.8.4-4, 3.8.4-5, 3.8.4-6, 3.8.4-7, 3.8.4-8, 3.8.4-9, 3.8.4-10, 3.8.4-11, 3.8.4-12, 3.8.4-13, 3.8.4-14, and 3.8.4-15 to reflect the layout changes to common basemat and changes to concrete force.	X	X	X	March 2013
	3.8.5 Figures Revise Figures 3.8.5-1, 3.8.5-2, 3.8.5-3, 3.8.5-4, 3.8.5-5, 3.8.5-6, 3.8.5-7, 3.8.5-8, 3.8.5-9, 3.8.5-10, 3.8.5-11, 3.8.5-12, and 3.8.5-13 to reflect the layout changes to common basemat and changes to concrete force.	X	X	X	March 2013
3	Figure 3.8.1-8 Revise Figures 3.8.1-8 (sheet 13 of 17), 3.8.1-8 (sheet 14 of 17) to reflect PCCV wall thickness change.	X			February 2013

Table 3 Impact on DCD					
DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
3	Figures 3.8.1-9, 3.8.4-9 Revise Figures 3.8.1-9 and 3.8.4-9			X	February 2013
3	3.8 Figures Revise Figures 3.8.4-5, 3.8.4-7, 3.8.4-13, 3.8.4-14, 3.8.5-11, 3.8.5-12, and 3.8.5-13			X	February 2013
Appendix 3B	3B.2.2.2, Table 3B-2, Figure 3B-18 MS piping material may be changed to SA 106 from SA 333	X			February 2013
Appendix 3D	Table 3D-2 Environmental Qualification Equipment List			X	January 2013 Completed (UAP-HF-13020)
Appendix 3H	Appendix 3H Delete App 3H which is on Lumped Mass Stick Model Approach	X			January 2013 Completed (UAP-HF-13020)
Appendix 3I	Appendix 3I Update ISRS used for COL Applicant comparison and validation based on the results in MUAP-10006	X			January 2013 Completed (UAP-HF-13020)
Appendix 3J	Appendix 3J Structural drawings		X	X	January 2013 Completed (UAP-HF-13020)
Appendix 3K	Appendix 3K Tables 3K-2 thru 3K-4 Update layout change			X	February 2013 This will be submitted as amended response to RAI 841 on March 2013.

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
Appendix 3K	Appendix 3K Layout drawings(Figures 3K-1 thru 3K-12)		X		February 2013 This will be submitted as amended response to RAI 841 on March 2013.
6	6.2 Table 6.2-1-2 change 4,000 psi to 5,000 psi concrete	X			January 2013 Completed (UAP-HF-13020)
6	6.2 Figures 6.2.1-5, 6.2.2-9, and 6.2.5-2 Layout drawings		X	X	January 2013 Completed (UAP-HF-13020)
6	6.4 Figure 6.4-1, 6.4-5 and 6.4-6 Layout drawing		X	X	January 2013 Completed (UAP-HF-13020)
6	6.5 Figures 6.5-2 thru 6.5-9 Layout drawing		X	X	January 2013 Completed (UAP-HF-13020)
8	8.2 Revise Layout drawing showing MT, UAT, RAT, and MV Buses (Figure 8.2-1)		X	X	January 2013 Completed (UAP-HF-13020)
8	Table 8.3.1-3 thru 8.3.1-6 Revise Electrical Load Distribution Lists due to HVAC system change		X	X	This will be submitted as Fukushima Report to be issued on February 2013
8	Table 8.3.1-9 Revise Electrical Equipment Location List to incorporate AIA countermeasures			X	January 2013 Completed (UAP-HF-13020)

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
8	Technical Report: Qualification & Test Plan of Class 1E Gas Turbine Generator System (MUAP-07024, Rev. 2) Revise the Electrical Load List		X	X	February 2013
8	Technical Report: Onsite AC Power System Calculation (MUAP-09023, Rev.0) Revise the Electrical Load List		X	X	February 2013
8	Figure 8.3.1-4 Class 1E Equipment Layout		X	X	January 2013 Completed (UAP-HF-13020)
9	Revise text for consistency with use of ESW pipe chase terminology	X			January 2013 Completed (UAP-HF-13020)
9	9.1 Fuel Rack Configuration	X			December 2013
9	Figure 9.1.2-1 thru 9.1.2-2 New Fuel Rack Array and Spent Fuel Rack Array	X			December 2013
9	Figure 9.1.2-3 Location of Containment Racks		X		January 2013 Completed (UAP-HF-13020)
9	Figure 9.1.4-1, Plan View of Light Load Handling System Figures 9.1.5-1 thru 9.1.5-3 Traveling Route Drawings		X		January 2013 Completed (UAP-HF-13020)
9	9.2.1.2.2.5 Revise description consistent with that part of ESWPC (RB South wall) included in the standard plant design			X	January 2013 Completed (UAP-HF-13020)
9	Tables 9.2.7-1 thru 9.2.7-2 Update Essential Chilled Water System Data due to HVAC system change		X	X	January 2013 Completed (UAP-HF-13020)

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
9	Figure 9.2.1-1 Update ESWS piping and instrumentation diagram			X	January 2013 Completed (UAP-HF-13020)
9	Technical Report: Safety-Related Air Conditioning, Heating, Cooling, and Ventilation Systems Calculations (MUAP-10020, Rev.1) Re-calculation of the heating, cooling and airflow requirement of the safety-related HVAC systems to incorporate the layout changes		X	X	March 2013
9	9.4.1, 9.4.1.3 Change the description of the closest potential source of fresh air contamination in Main Control Room to be consistent with the updated general arrangement		X		March 2013
9	Table 9.4-1 Revise Table 9.4-1 due to layout change.		X	X	January 2013 Completed (UAP-HF-13020)
9	Tables 9.4.3-1 thru 9.4.5-1 Update AHU Equipment Design Data due to HVAC system change		X	X	January 2013 Completed (UAP-HF-13020)
9	9.5.8, 9.5.8.3 Change the description of guard structure for GTG intake and exhaust openings against precipitation, tornado missiles and hurricane missiles to be consistent with the updated general arrangement		X		March 2013
9	9.5 Appendix 9A/ figures Fire area drawing (Figure 9A-1 thru 17 and 27)		X	X	March 2013
9	9.5 Appendix 9A/ table 9A-2 Fire Hazard Analysis Summary		X	X	March 2013
9	9.5 Appendix 9A/ table 9A-3 Fire Zone/ Fire Area Inter face		X	X	March 2013
11	Figures 11.5-2 a through k Monitor Layout drawings		X	X	January 2013 Completed (UAP-HF-13020)

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
12	Table 12.3-1 Update Wall Thicknesses		X	X	January 2013 Completed (UAP-HF-13020)
12	Tables 12.3-3 and 12.3-10 Mission Dose		X	X	January 2013 Completed (UAP-HF-13020)
12	Figure 12.3-1 thru Figure 12.3-6, Figure 12.3-9, and Figure 12.3-11 Radiation Zone Maps		X	X	January 2013 Completed (UAP-HF-13020)
13	Technical Report: Design Certification Physical Security Element Review (UAP-SGI-08001, Rev.3) Revision/reconciliation based on the adjusted layout		X		July 2013
13	Technical Report: High Assurance Evaluation Assessment (UAP-SGI-08002, Rev.3) Revision/reconciliation based on the adjusted layout		X		June 2013
15	Figure 15A-1 Revise Site Plan with Release and Intake Locations based on layout changes		X	X	January 2013 Completed (UAP-HF-13020)
17	Table 17.4-1 Update Risk-significant SSCs		X	X	February 2013
19	Revise text for consistency with use of ESW pipe chase terminology	X			January 2013
19	19.1.5.2 and 19.1.6.3 Revise Internal Fire PRA		X	X	February 2013

Table 3 Impact on DCD

DCD Affected Chapter	Summary of Potential Changes	Cause of Change			DCD Markup Date to NRC
		Seismic Related Change	Layout Change	AIA /ESWPT Change	
19	19.1.5.3 and 19.1.6.3 Revise Internal Flooding PRA		X	X	February 2013
19	Technical Report: Probabilistic Risk Assessment (Level ½) (MUAP-07030, Rev.3) Incorporate the impact of the Layout design and seismic design		X	X	February 2013
19	Appendix 19A Aircraft Impact Assessment		X	X	May 2013

Notes:

Cause of Change "Layout Change" includes two changes. One is a change related to a common basemat structure. The other is a change related to AIA/ESWPT enhancement.

Attachment 4

RAI Response Assessment Results

Table 4-1 Historical RAI Disposition

Table 4-2 Outstanding RAIs Previously On Hold

Table 4-3 Other Outstanding In-Process RAIs

RAI RESPONSE ASSESSMENT CRITERIA

The following criteria are intended to facilitate consistent categorization of previously submitted RAI responses with respect to the extent to which they are affected by design and methodology changes. There are three categories into which such RAI responses can be placed. These are:

- A. No material effect
- B. Editorial changes only
- C. Material effect – Response revision required

Criteria to be used to determine the category assigned to an RAI response are listed below.

A. No material effect

An RAI response is category “A” when it meets one or more of the following criteria:

1. The RAI question is no longer applicable because its subject is no longer used by the DCD or its design documents (e.g., lumped-mass-stick-model usage for PCCV static analysis)¹
2. DCD² changes do not alter the response or associated mark-ups, or they alter a response that was superseded by a subsequent response.

Category A RAI responses require no revision.

B. Editorial changes only

An RAI response is category “B” when DCD changes alter response wording but not its material content.

Examples of editorial changes:

- DCD changes alter a transitory condition previously reported in an RAI or change a reference number (e.g., status report, technical report number, table number, drawing number, ITAAC number, etc.)³.
- DCD changes correct a spelling or grammatical error.
- DCD changes alter a provided status but do not materially alter DCD technical content, a statement of fact, or conformance to regulations or regulatory guidance.

Category B RAI responses require no revision.

C. Material effect – Response revision required

An RAI response is categorized as “C” when DCD changes affect the RAI response in a way that is characterized by one or more of the following⁴:

- DCD changes materially alter a statement of fact.
- DCD changes materially alter technical content.
- DCD changes materially alter conformance to regulations or regulatory guidance.
- DCD changes cause a response to no longer directly and accurately answer the RAI question.
- Materially altered RAI responses will be revised except when the altered content is clearly⁵ redundant to content provided in a subsequent (later) RAI response.

¹ When an RAI question is no longer applicable, its response and associated actions, including commitments, are withdrawn.

² The term “DCD” includes supporting documents, such as analyses or technical reports.

³ Technical reports that are combined or reorganized may change number or revision designations.

⁴ When follow-up RAI responses exist, only the most recent response to a question is considered.

⁵ In this context, “clearly” means the same or substantially similar. This specifically excludes inferential content, such as similar information that can be inferred by interpretation of tables or figures.

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
55	968	03.07.04-01		UAP-HF-08175 (09/01/08)	A2	N/A	N/A
55	968	03.07.04-02		UAP-HF-08175 (09/01/08)	A2	N/A	N/A
94	1491	02.05.04-1		UAP-HF-08272 (12/03/08)	C	7	March 2013
94	1491	02.05.04-2		UAP-HF-08272 (12/03/08)	C	12	February 2013
96	1498	02.05.02-1		UAP-HF-08272 (12/03/08)	A2	N/A	N/A
211	1946	03.07.01-01	03.07.01-01	UAP-HF-09112 (03/25/09)	A1	N/A	N/A
211	1946	03.07.01-01	03.07.01-02	UAP-HF-09112 (03/25/09)	A1	N/A	N/A
211	1946	03.07.01-01	03.07.01-03	UAP-HF-09187 (04/23/09)	A1	N/A	N/A
211	1946	03.07.01-01	03.07.01-04	UAP-HF-09112 (03/25/09)	A1	N/A	N/A
211	1946	03.07.01-01	03.07.01-05	UAP-HF-09187 (04/23/09)	C	1	January 2013 Completed (UAP-HF-13017)
211	1946	03.07.01-01	03.07.01-06	UAP-HF-09187 (04/23/09)	A1	N/A	N/A
211	1946	03.07.01-01	03.07.01-07	UAP-HF-09187 (04/23/09)	C	7	March 2013
212	1950	03.07.02-001	03.07.02-01	UAP-HF-09188 (05/07/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-02	UAP-HF-09113 (03/30/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-03	UAP-HF-09188 (05/07/09)	A1	N/A	N/A
212	1950	03.07.02-001	03.07.02-04	UAP-HF-09113 (03/30/09)	A1	N/A	N/A
212	1950	03.07.02-001	03.07.02-05	UAP-HF-09188 (05/07/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-06	UAP-HF-09188 (05/07/09)	C	3	January 2013 Completed (UAP-HF-13017)

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
212	1950	03.07.02-001	03.07.02-07	UAP-HF-09113 (03/30/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-08	UAP-HF-09113 (3/30/09)	A1	N/A	N/A
212	1950	03.07.02-001	03.07.02-09	UAP-HF-09113 (03/30/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-10	UAP-HF-09113 (03/30/09)	A1	N/A	N/A
212	1950	03.07.02-001	03.07.02-11	UAP-HF-09113 (03/30/09)	A1	N/A	N/A
212	1950	03.07.02-001	03.07.02-12	UAP-HF-09188 (05/07/09)	A2	N/A	N/A
212	1950	03.07.02-001	03.07.02-13	UAP-HF-09188 (05/07/09)	C	8	March 2013
212	1950	03.07.02-001	03.07.02-14	UAP-HF-09188 (05/07/09)	C	8	March 2013
212	1950	03.07.02-001	03.07.02-15	UAP-HF-09188 (05/07/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-16	UAP-HF-09188 (05/07/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-17	UAP-HF-09188 (05/07/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-18	UAP-HF-09188 (05/07/09)	A1	N/A	N/A
212	1950	03.07.02-001	03.07.02-19	UAP-HF-09188 (05/07/09)	A1	N/A	N/A
212	1950	03.07.02-001	03.07.02-20	UAP-HF-09188 (05/07/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-21	UAP-HF-09113 (03/30/09)	C	1	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-22	UAP-HF-09113 (03/30/09)	A2	N/A	N/A
212	1950	03.07.02-001	03.07.02-23	UAP-HF-09113 (03/30/09)	C	12	February 2013

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
212	1950	03.07.02-001	03.07.02-24	UAP-HF-09188 (05/07/09)	C	7	March 2013
212	1950	03.07.02-001	03.07.02-25	UAP-HF-09113 (03/30/09)	C	12	February 2013
212	1950	03.07.02-001	03.07.02-26	UAP-HF-09113 (03/30/09)	A2	N/A	N/A
212	1950	03.07.02-001	03.07.02-27	UAP-HF-09188 (05/07/09)	C	3	January 2013 Completed (UAP-HF-13017)
212	1950	03.07.02-001	03.07.02-28	UAP-HF-09113 (03/30/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-01	UAP-HF-09114 (03/27/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-02	UAP-HF-09114 (03/27/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-03	UAP-HF-09189 (04/24/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-04	UAP-HF-09189 (04/24/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-05	UAP-HF-09114 (03/27/09)	C	3	January 2013 Completed (UAP-HF-13017)
213	1951	03.07.03-01	03.07.03-06	UAP-HF-09189 (04/24/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-07	UAP-HF-09114 (03/27/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-08	UAP-HF-09114 (03/27/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-09	UAP-HF-09114 (03/27/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-10	UAP-HF-09114 (03/27/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-11	UAP-HF-09114 (03/27/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-12	UAP-HF-09189 (04/24/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-13	UAP-HF-09114 (03/27/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-14	UAP-HF-09189 (04/24/09)	A2	N/A	N/A
213	1951	03.07.03-01	03.07.03-15	UAP-HF-09189 (04/24/09)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
223	1996	03.08.01-01	03.08.01-01	UAP-HF-09161 (04/14/09)	A2	N/A	N/A
223	1996	03.08.01-01	03.08.01-02	UAP-HF-09161 (04/14/09)	A2	N/A	N/A
223	1996	03.08.01-01	03.08.01-03	UAP-HF-09161 (04/14/09)	A2	N/A	N/A
223	1996	03.08.01-01	03.08.01-04	UAP-HF-09161 (04/14/09)	A2	N/A	N/A
223	1996	03.08.01-01	03.08.01-05	UAP-HF-09161 (04/14/09)	A1	N/A	N/A
223	1996	03.08.01-01	03.08.01-06	UAP-HF-09161 (04/14/09)	A2	N/A	N/A
223	1996	03.08.01-01	03.08.01-07	UAP-HF-09161 (04/14/09)	C	11	June 2013
223	1996	03.08.01-01	03.08.01-08	UAP-HF-09161 (04/14/09)	C	3	January 2013 Completed (UAP-HF-13017)
223	1996	03.08.01-01	03.08.01-09	UAP-HF-09161 (04/14/09)	A2	N/A	N/A
223	1996	03.08.01-01	03.08.01-10	UAP-HF-09161 (04/14/09)	A1	N/A	N/A
223	1996	03.08.01-01	03.08.01-11	UAP-HF-09161 (04/14/09)	C	11	June 2013
223	1996	03.08.01-01	03.08.01-12	UAP-HF-09194 (04/24/09)	A2	N/A	N/A
223	1996	03.08.01-01	03.08.01-13	UAP-HF-09194 (04/24/09)	A2	N/A	N/A
223	1996	03.08.01-01	03.08.01-14	UAP-HF-09161 (04/14/09)	A2	N/A	N/A
322	1999	03.08.03-01		UAP-HF-09278 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-02		UAP-HF-09246 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-03		UAP-HF-09246 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
322	1999	03.08.03-04		UAP-HF-09246 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-05		UAP-HF-09246 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-06		UAP-HF-09278 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-07		UAP-HF-09278 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-08		UAP-HF-09278 (06/04/09) UAP-HF-09449 (9/17/09)	C	6	March 2013
322	1999	03.08.03-09		UAP-HF-09246 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-10		UAP-HF-09246 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-11		UAP-HF-09278 (06/04/09) UAP-HF-09449 (09/17/09)	A2	N/A	N/A
322	1999	03.08.03-12		UAP-HF-09246 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-13		UAP-HF-09278 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
322	1999	03.08.03-14		UAP-HF-09278 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
322	1999	03.08.03-15		UAP-HF-09278 (06/04/09) UAP-HF-09449 (9/17/09)	A2	N/A	N/A
340	2004	03.08.05-01		UAP-HF-09363 (07/03/09)	A1	N/A	N/A
340	2004	03.08.05-02		UAP-HF-09363 (07/03/09)	A1	N/A	N/A
340	2004	03.08.05-03		UAP-HF-09363 (07/03/09)	A1	N/A	N/A
340	2004	03.08.05-04		UAP-HF-09363 (07/03/09)	A1	N/A	N/A
340	2004	03.08.05-05		UAP-HF-09363 (07/03/09)	A1	N/A	N/A
340	2004	03.08.05-06		UAP-HF-09363 (07/03/09)	A2	N/A	N/A
340	2004	03.08.05-07		UAP-HF-09363 (07/03/09)	A1	N/A	N/A
340	2004	03.08.05-08		UAP-HF-09363 (07/03/09)	A1	N/A	N/A
340	2004	03.08.05-09		UAP-HF-09363 (07/03/09)	C	7	March 2013
340	2004	03.08.05-10		UAP-HF-09363 (07/03/09)	A1	N/A	N/A
340	2004	03.08.05-11		UAP-HF-09363 (07/03/09)	A1	N/A	N/A
340	2004	03.08.05-12		UAP-HF-09363 (07/03/09)	C	9	March 2013
340	2004	03.08.05-13		UAP-HF-09363 (07/03/09)	C	9	March 2013
340	2004	03.08.05-14		UAP-HF-09363 (07/03/09)	C	9	March 2013
340	2004	03.08.05-15		UAP-HF-09363 (07/03/09)	A2	N/A	N/A
340	2004	03.08.05-16		UAP-HF-09363 (07/03/09)	A2	N/A	N/A
340	2004	03.08.05-17		UAP-HF-09363 (07/03/09)	C	5	March 2013
340	2004	03.08.05-18		UAP-HF-09363 (07/03/09)	C	7	March 2013
340	2004	03.08.05-19		UAP-HF-09363 (07/03/09)	A2	N/A	N/A
340	2004	03.08.05-20		UAP-HF-09363 (07/03/09)	A2	6	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
340	2004	03.08.05-21		UAP-HF-09363 (07/03/09)	A2	N/A	N/A
340	2004	03.08.05-22		UAP-HF-09363 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-01		UAP-HF-09360 (07/03/09)	C	3	January 2013 Completed (UAP-HF-13017)
342	2000	03.08.04-02		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-03		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-04		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-05		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-06		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-07		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-08		UAP-HF-09360 (07/3/09)	A2	N/A	N/A
342	2000	03.08.04-09		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-10		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-11		UAP-HF-09360 (07/03/09)	A1	N/A	N/A
342	2000	03.08.04-12		UAP-HF-09360 (07/03/09)	C	11	June 2013
342	2000	03.08.04-13		UAP-HF-09360 (07/03/09)	C	11	June 2013
342	2000	03.08.04-14		UAP-HF-09360 (07/03/09)	C	11	June 2013
342	2000	03.08.04-15		UAP-HF-09360 (07/03/09)	C	11	June 2013
342	2000	03.08.04-16		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-17		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-18		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-19		UAP-HF-09360 (07/03/09)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
342	2000	03.08.04-20		UAP-HF-09360 (07/03/09)	C	6	March 2013
342	2000	03.08.04-21		UAP-HF-09360 (7/03/09)	A2	N/A	N/A
342	2000	03.08.04-22		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-23		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-24		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-25		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-26		UAP-HF-09360 (07/03/09)	A1	N/A	N/A
342	2000	03.08.04-27		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-28		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-29		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-30		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
342	2000	03.08.04-31		UAP-HF-09360 (07/03/09)	A2	N/A	N/A
489	3516	03.04.02-05		UAP-HF-09575 (12/23/2009)	C	5	March 2013
490	3732	03.08.01-02		UAP-HF-10033 (02/04/10)	C	11	June 2013
490	3732	03.08.01-03		UAP-HF-10033 (02/04/10)	A2	N/A	N/A
490	3732	03.08.01-04		UAP-HF-10033 (02/04/10)	A2	N/A	N/A
490	3732	03.08.01-05		UAP-HF-10033 (02/04/10)	A1	N/A	N/A
490	3732	03.08.01-06		UAP-HF-10033 (02/04/10)	A2	N/A	N/A
490	3732	03.08.01-07		UAP-HF-10033 (02/04/10)	A2	N/A	N/A
490	3732	03.08.01-08		UAP-HF-10033 (02/04/10)	C	3	January 2013 Completed (UAP-HF-13017)
490	3732	03.08.01-09		UAP-HF-10033 (02/04/10)	C	11	June 2013

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
490	3732	03.08.01-10		UAP-HF-10033 (02/04/10)	C	11	June 2013
491	3733	03.08.03-16		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
491	3733	03.08.03-17		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
491	3733	03.08.03-18		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
491	3733	03.08.03-19		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
491	3733	03.08.03-20		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
491	3733	03.08.03-21		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
491	3733	03.08.03-22		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
491	3733	03.08.03-23		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
491	3733	03.08.03-24		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
491	3733	03.08.03-25		UAP-HF-10062 (03/03/10)	A2	N/A	N/A
493	3983	03.07.03-02		UAP-HF-10019 (01/28/10)	A2	N/A	N/A
493	3983	03.07.03-03		UAP-HF-10019 (01/28/10)	A2	N/A	N/A
493	3983	03.07.03-04		UAP-HF-10019 (01/28/10)	A2	N/A	N/A
493	3983	03.07.03-05		UAP-HF-10019 (01/28/10)	A2	N/A	N/A
494	3978	03.07.01-02		UAP-HF-10022 (01/29/10)	C	7	March 2013
494	3978	03.07.01-03		UAP-HF-10022 (01/29/10)	A2	N/A	N/A
494	3978	03.07.01-04		UAP-HF-10022 (01/29/10)	A2	N/A	N/A
495	3980	03.07.02-02		UAP-HF-10029 (02/02/10)	C	3	January 2013 Completed (UAP-HF-13017)
495	3980	03.07.02-03		UAP-HF-10029 (02/02/10)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
495	3980	03.07.02-04		UAP-HF-10029 (02/02/10)	C	3	January 2013 Completed (UAP-HF-13017)
495	3980	03.07.02-05		UAP-HF-10029 (02/02/10)	C	12	February 2013
496	3735	03.08.05-23		UAP-HF-10032 (02/04/10)	A2	N/A	N/A
496	3735	03.08.05-24		UAP-HF-10032 (02/04/10)	A1	N/A	N/A
496	3735	03.08.05-25		UAP-HF-10032 (02/04/10)	A1	N/A	N/A
496	3735	03.08.05-26		UAP-HF-10032 (02/04/10)	C	7	March 2013
496	3735	03.08.05-27		UAP-HF-10032 (02/04/10)	C	3	January 2013 Completed (UAP-HF-13017)
496	3735	03.08.05-28		UAP-HF-10032 (02/04/10)	A1	N/A	N/A
496	3735	03.08.05-29		UAP-HF-10032 (02/04/10)	A1	N/A	N/A
496	3735	03.08.05-30		UAP-HF-10032 (02/04/10)	A1	N/A	N/A
496	3735	03.08.05-31		UAP-HF-10032 (02/04/10)	C	9	March 2013
496	3735	03.08.05-32		UAP-HF-10032 (02/04/10)	C	9	March 2013
496	3735	03.08.05-33		UAP-HF-10032 (02/04/10)	C	5	March 2013
496	3735	03.08.05-34		UAP-HF-10032 (02/04/10)	A2	N/A	N/A
496	3735	03.08.05-35		UAP-HF-10032 (02/04/10)	A2	N/A	N/A
497	3734	03.08.04-32		UAP-HF-10047 (02/19/10)	A2	N/A	N/A
497	3734	03.08.04-33		UAP-HF-10047 (02/19/10)	C	5	March 2013
497	3734	03.08.04-34		UAP-HF-10047 (02/19/10)	A2	N/A	N/A
497	3734	03.08.04-35		UAP-HF-10047 (02/19/10)	A2	N/A	N/A
497	3734	03.08.04-36		UAP-HF-10047 (02/19/10)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
497	3734	03.08.04-37		UAP-HF-10047 (02/19/10) UAP-HF-11016 (01/27/11)	A1	N/A	N/A
497	3734	03.08.04-38		UAP-HF-10047 (02/19/10)	A1	N/A	N/A
497	3734	03.08.04-39		UAP-HF-10047 (02/19/10) UAP-HF-11016 (01/27/11)	C	11	June 2013
497	3734	03.08.04-40		UAP-HF-10047 (02/19/10)	C	11	June 2013
497	3734	03.08.04-41		UAP-HF-10047 (02/19/10)	A2	N/A	N/A
497	3734	03.08.04-42		UAP-HF-10047 (02/19/10)	C	6	March 2013
497	3734	03.08.04-43		UAP-HF-10047 (02/19/10)	A2	N/A	N/A
497	3734	03.08.04-44		UAP-HF-10047 (02/19/10) UAP-HF-11016 (01/27/11)	A1	N/A	N/A
497	3734	03.08.04-45		UAP-HF-10047 (02/19/10)	A2	N/A	N/A
497	3734	03.08.04-46		UAP-HF-10047 (02/19/10)	A2	N/A	N/A
497	3734	03.08.04-47		UAP-HF-10047 (02/19/10)	A2	N/A	N/A
538	4320	03.07.04-03		UAP-HF-10088 (03/30/10)	A2	12	N/A
542	4262	03.07.02-006 (-33)		UAP-HF-10086 (03/30/10)	A1	N/A	N/A
542	4262	03.07.02-007 (-34)		UAP-HF-10086 (03/30/10)	C	12	February 2013
542	4262	03.07.02-008 (-35)		UAP-HF-11195 (06/29/11)	C	3	January 2013 Completed (UAP-HF-13017)
546	4345	03.04.02-6		UAP-HF-10105 (04/16/10)	C	5	March 2013
602	4665	03.07.01-05		UAP-HF-10219 (07/27/10)	A1	N/A	N/A
603	4666	03.07.02-009 (-36)		UAP-HF-10217 (07/27/10)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
603	4666	03.07.02-010 (-37)		UAP-HF-10238 (08/30/10)	A1	N/A	N/A
625	4924	03.07.02-011		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-012		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-013		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-014		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-015		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-016		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-017		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-018		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-019		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-020		UAP-HF-10300 (11/04/10)	C	3	January 2013 Completed (UAP-HF-13017)
625	4924	03.07.02-021		UAP-HF-10300 (11/04/10)	A2	N/A	N/A
625	4924	03.07.02-022		UAP-HF-10300 (11/04/10)	A1	N/A	N/A
625	4924	03.07.02-023		UAP-HF-10300 (11/04/10)	C	1	January 2013 Completed (UAP-HF-13017)
625	4924	03.07.02-024		UAP-HF-10300 (11/04/10)	C	2	January 2013 Completed (UAP-HF-13017)
632	5041	03.07.04-04		UAP-HF-10280 (10/19/10)	C	12	March 2013
643	4967	03.07.01-06 (-12)		UAP-HF-10308 (11/11/10)	C	7	March 2013
643	4967	03.07.01-07 (-13)		UAP-HF-10308 (11/11/10)	C	1	January 2013 Completed (UAP-HF-13017)
643	4967	03.07.01-08 (-14)		UAP-HF-10308 (11/11/10)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
643	4967	03.07.01-09 (-15)		UAP-HF-10308 (11/11/10)	C	3	January 2013 Completed (UAP-HF-13017)
643	4967	03.07.01-10 (-16)		UAP-HF-10308 (11/11/10)	A2	N/A	N/A
657	5135	03.08.05-36		UAP-HF-10351 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
657	5135	03.08.05-37		UAP-HF-10351 (12/28/10)	A2	N/A	N/A
657	5135	03.08.05-38		UAP-HF-10351 (12/28/10)	C	4	January 2013 Completed (UAP-HF-13017)
657	5135	03.08.05-39		UAP-HF-10351 (12/28/10)	C	8	March 2013
657	5135	03.08.05-40		UAP-HF-10351 (12/28/10)	C	9	March 2013
657	5135	03.08.05-41		UAP-HF-10351 (12/28/10)	C	5	March 2013
658	5130	03.08.04-48		UAP-HF-10352 (12/28/10)	C	11	June 2013
658	5130	03.08.04-49		UAP-HF-10352 (12/28/10)	A2	N/A	N/A
659	5133	03.07.01-11 (-17)		UAP-HF-10353 (12/28/10)	C	1	January 2013 Completed (UAP-HF-13017)
659	5133	03.07.01-12 (-18)		UAP-HF-10353 (12/28/10)	C	1	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-025 (-52)		UAP-HF-10355 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-026 (-53)		UAP-HF-10355 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-027 (-54)		UAP-HF-10355 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-028 (-55)		UAP-HF-10355 (12/28/10)	A1	N/A	N/A
660	5134	03.07.02-029 (-56)		UAP-HF-10355 (12/28/10)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
660	5134	03.07.02-030 (-57)		UAP-HF-10355 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-031 (-58)		UAP-HF-10355 (12/28/10)	C	1	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-032 (-59)		UAP-HF-10355 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-033 (-60)		UAP-HF-10355 (12/28/10)	C	4	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-034 (-61)		UAP-HF-10355 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-035 (-62)		UAP-HF-10355 (12/28/10)	C	8	March 2013
660	5134	03.07.02-036 (-63)		UAP-HF-10355 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-037 (-64)		UAP-HF-10355 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-038 (-65)		UAP-HF-10355 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
660	5134	03.07.02-039 (-68)		UAP-HF-10355 (12/28/10)	C	12	February 2013
661	5129	03.08.01-11 (-24)		UAP-HF-10357 (12/28/10)	A1	N/A	N/A
661	5129	03.08.01-12 (-25)		UAP-HF-10357 (12/28/10)	A2	N/A	N/A
661	5129	03.08.01-13 (-26)		UAP-HF-10357 (12/28/10)	C	3	January 2013 Completed (UAP-HF-13017)
662	5131	03.08.03-26		UAP-HF-10358 (12/28/10)	C	6	March 2013
662	5131	03.08.03-27		UAP-HF-10358 (12/28/10)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
662	5131	03.08.03-28		UAP-HF-10358 (12/28/10) UAP-HF-12319 (12/5/12)	A2	N/A	N/A
662	5131	03.08.03-29		UAP-HF-10358 (12/28/10)	C	11	June 2013
662	5131	03.08.03-30		UAP-HF-10358 (12/28/10)	C	6	March 2013
662	5131	03.08.03-31		UAP-HF-10358 (12/28/10)	A2	N/A	N/A
662	5131	03.08.03-32		UAP-HF-10358 (12/28/10)	C	6	March 2013
676	5209	03.08.03-33		UAP-HF-11045 (02/23/11)	A2	N/A	N/A
676	5209	03.08.03-34		UAP-HF-11045 (02/23/11)	A2	N/A	N/A
676	5209	03.08.03-35		UAP-HF-11045 (02/23/11)	C	6	March 2013
709	5489	03.07.01-13 (-17)		UAP-HF-11111 (04/19/11)	C	1	January 2013 Completed (UAP-HF-13017)
766	5819	03.07.02-040		UAP-HF-11392 (11/16/11)	C	14	March 2013
766	5819	03.07.02-041		UAP-HF-11249 (08/01/11)	C	14	March 2013
766	5819	03.07.02-042		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-043		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-044		UAP-HF-11392 (11/16/11)	C	14	March 2013
766	5819	03.07.02-045		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-046		UAP-HF-11392 (11/16/11)	C	14	March 2013
766	5819	03.07.02-047		UAP-HF-11249 (08/01/11)	C	14	March 2013
766	5819	03.07.02-048		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-049		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-050		UAP-HF-11392 (11/16/11)	C	14	March 2013

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
766	5819	03.07.02-051		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-052		UAP-HF-11392 (11/16/11)	C	14	March 2013
766	5819	03.07.02-053		UAP-HF-11249 (08/01/11)	C	14	March 2013
766	5819	03.07.02-054		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-055		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-056		UAP-HF-11249 (08/01/11)	C	14	March 2013
766	5819	03.07.02-057		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-058		UAP-HF-11249 (08/01/11)	C	14	March 2013
766	5819	03.07.02-059		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-060		UAP-HF-11392 (11/16/11)	C	14	March 2013
766	5819	03.07.02-061		UAP-HF-11392 (11/16/11)	C	14	March 2013
766	5819	03.07.02-062		UAP-HF-11249 (08/01/11)	C	14	March 2013
766	5819	03.07.02-063		UAP-HF-11393 (11/16/11)	C	14	March 2013
766	5819	03.07.02-064		UAP-HF-11249 (08/01/11)	C	14	March 2013
766	5819	03.07.02-065		UAP-HF-11249 (08/01/11)	C	14	March 2013
766	5819	03.07.02-066		UAP-HF-11392 (11/16/11)	C	14	March 2013
766	5819	03.07.02-067		UAP-HF-11249 (08/01/11)	C	14	March 2013
767	5821	03.08.04-50		UAP-HF-11392 (11/16/11)	C	14	March 2013
767	5821	03.08.04-51		UAP-HF-11393 (11/16/11)	C	14	March 2013
768	5830	03.08.01-14		UAP-HF-11231 (7/25/11)	A2	N/A	N/A
776	5851	03.07.02-068		UAP-HF-11262 (08/12/11)	C	3	January 2013 Completed (UAP-HF-13017)

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
776	5851	03.07.02-069		UAP-HF-11262 (08/12/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-070		UAP-HF-11281 (08/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-071		UAP-HF-11262 (08/12/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-072		UAP-HF-11281 (08/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-073		UAP-HF-11262 (08/12/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-074		UAP-HF-11281 (08/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-075		UAP-HF-11281 (08/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-076		UAP-HF-11281 (08/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-077		UAP-HF-11262 (08/12/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-078		UAP-HF-11281 (08/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-079		UAP-HF-11281 (08/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-080		UAP-HF-11281 (08/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-081		UAP-HF-11262 (08/12/11)	C	3	January 2013 Completed (UAP-HF-13017)
776	5851	03.07.02-082		UAP-HF-11281 (08/30/11)	C	11	June 2013

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
776	5851	03.07.02-083		UAP-HF-11262 (08/12/11)	C	11	June 2013
776	5851	03.07.02-084		UAP-HF-11281 (08/30/11)	C	4	January 2013 Completed (UAP-HF-13017)
791	5864	03.07.02-085		UAP-HF-11282 (08/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
798	5876	03.07.01-14		UAP-HF-11296 (09/07/11)	C	1	January 2013 Completed (UAP-HF-13017)
798	5876	03.07.01-15		UAP-HF-11296 (09/07/11)	C	1	January 2013 Completed (UAP-HF-13017)
798	5876	03.07.01-16		UAP-HF-11296 (09/07/11)	C	1	January 2013 Completed (UAP-HF-13017)
798	5876	03.07.01-17		UAP-HF-11421 (12/7/11)	C	4	January 2013 Completed (UAP-HF-13017)
799	5877	03.07.03-06		UAP-HF-11297 (09/07/11)	A2	N/A	N/A
799	5877	03.07.03-07		UAP-HF-11347 (10/07/11)	A2	N/A	N/A
799	5877	03.07.03-08		UAP-HF-11297 (09/07/11)	A2	N/A	N/A
799	5877	03.07.03-09		UAP-HF-11297 (09/07/11)	A2	N/A	N/A
799	5877	03.07.03-10		UAP-HF-11347 (10/07/11)	A2	N/A	N/A
799	5877	03.07.03-11		UAP-HF-11347 (10/07/11)	A2	N/A	N/A
800	5879	03.07.02-086		UAP-HF-11298 (09/07/11)	A2	N/A	N/A
800	5879	03.07.02-087		UAP-HF-11298 (09/07/11)	A2	N/A	N/A
800	5879	03.07.02-088		UAP-HF-11298 (09/07/11)	A2	N/A	N/A
800	5879	03.07.02-089		UAP-HF-11298 (09/07/11)	A2	N/A	N/A
800	5879	03.07.02-090		UAP-HF-11372 (11/1/11)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
810	5874	03.07.02-091		UAP-HF-11402 (11/22/11)	C	3	January 2013 Completed (UAP-HF-13017)
810	5874	03.07.02-092		UAP-HF-11402 (11/22/11)	C	3	January 2013 Completed (UAP-HF-13017)
810	5874	03.07.02-093		UAP-HF-11402 (11/22/11)	C	6	March 2013
810	5874	03.07.02-094		UAP-HF-11402 (11/22/11)	A2	N/A	N/A
810	5874	03.07.02-095		UAP-HF-11402 (11/22/11)	C	3	January 2013 Completed (UAP-HF-13017)
810	5874	03.07.02-096		UAP-HF-11402 (11/22/11)	A2	N/A	N/A
810	5874	03.07.02-097		UAP-HF-11324 (09/22/11)	A2	N/A	N/A
810	5874	03.07.02-098		UAP-HF-11402 (11/22/11)	C	8	March 2013
810	5874	03.07.02-099		UAP-HF-11324 (09/22/11)	A2	N/A	N/A
810	5874	03.07.02-100		UAP-HF-11402 (11/22/11)	C	1	January 2013 Completed (UAP-HF-13017)
810	5874	03.07.02-101		UAP-HF-11402 (11/22/11)	A2	N/A	N/A
810	5874	03.07.02-102		UAP-HF-11324 (09/22/11)	C	3	January 2013 Completed (UAP-HF-13017)
810	5874	03.07.02-103		UAP-HF-11402 (11/22/11)	C	3	January 2013 Completed (UAP-HF-13017)
810	5874	03.07.02-104		UAP-HF-11402 (11/22/11)	A2	N/A	N/A
810	5874	03.07.02-105		UAP-HF-11402 (11/22/11)	A2	N/A	N/A
810	5874	03.07.02-106		UAP-HF-11324 (09/22/11)	A2	N/A	N/A
810	5874	03.07.02-107		UAP-HF-11324 (09/22/11)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition							
RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
810	5874	03.07.02-108		UAP-HF-11413 (11/30/11)	C	3	January 2013 Completed (UAP-HF-13017)
812	5983	03.07.02-109		UAP-HF-11325 (09/22/11)	C	13	February 2013
850	6002	03.07.01-19		UAP-HF-11417 (12/1/11)	C	1	January 2013 Completed (UAP-HF-13017)
850	6002	03.07.01-20		UAP-HF-11417 (12/1/11)	A2	N/A	N/A
850	6002	03.07.01-21		UAP-HF-11417 (12/1/11)	A2	N/A	N/A
850	6002	03.07.01-22		UAP-HF-11417 (12/1/11)	A2	N/A	N/A
850	6002	03.07.01-23		UAP-HF-11417 (12/1/11)	C	1	January 2013 Completed (UAP-HF-13017)
850	6002	03.07.01-24		UAP-HF-11417 (12/1/11)	C	1	January 2013 Completed (UAP-HF-13017)
850	6002	03.07.01-25		UAP-HF-11417 (12/1/11)	C	1	January 2013 Completed (UAP-HF-13017)
850	6002	03.07.01-26		UAP-HF-11417 (12/1/11)	C	1	January 2013 Completed (UAP-HF-13017)
850	6002	03.07.01-27		UAP-HF-11417 (12/1/11)	C	1	January 2013 Completed (UAP-HF-13017)
850	6002	03.07.01-28		UAP-HF-11417 (12/1/11)	C	4	January 2013 Completed (UAP-HF-13017)
850	6002	03.07.01-29		UAP-HF-11417 (12/1/11)	C	1	January 2013 Completed (UAP-HF-13017)
850	6002	03.07.01-30		UAP-HF-11417 (12/1/11)	C	1	January 2013 Completed (UAP-HF-13017)
850	6002	03.07.01-31		UAP-HF-11417 (12/1/11)	A2	N/A	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
850	6002	03.07.01-32		UAP-HF-11417 (12/1/11)	C	1	January 2013 Completed (UAP-HF-13017)
858	6126	03.08.03-36		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-37		UAP-HF-12051 (2/28/12)	C	6	March 2013
858	6126	03.08.03-38		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-39		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-40		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-41		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-42		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-43		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-44		UAP-HF-12051 (2/28/12)	C	6	March 2013
858	6126	03.08.03-45		UAP-HF-12051 (2/28/12)	C	6	March 2013
858	6126	03.08.03-46		UAP-HF-12051 (2/28/12)	C	6	March 2013
858	6126	03.08.03-47		UAP-HF-12051 (2/28/12)	C	6	March 2013
858	6126	03.08.03-48		UAP-HF-12051 (2/28/12)	C	6	March 2013
858	6126	03.08.03-49		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-50		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-51		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-52		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-53		UAP-HF-12051 (2/28/12)	C	6	March 2013
858	6126	03.08.03-54		UAP-HF-12051 (2/28/12)	A2	N/A	N/A
858	6126	03.08.03-55		UAP-HF-12051 (2/28/12)	C	6	March 2013

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
879	6196	03.08.04-52		UAP-HF-12054 2/29/12 UAP-HF-12076 3/26/12	C	6	March 2013
886	6202	03.07.01-33		UAP-HF-12050 (2/24/12)	C	13	February 2013
894	6270	03.08.03-56		UAP-HF-12083 (4/3/12)	C	6	March 2013
894	6270	03.08.03-57		UAP-HF-12083 (4/3/12)	A2	N/A	N/A
894	6270	03.08.03-58		UAP-HF-12083 (4/3/12)	A2	N/A	N/A
894	6270	03.08.03-59		UAP-HF-12083 (4/3/12)	A2	N/A	N/A
894	6270	03.08.03-60		UAP-HF-12083 (4/3/12)	A2	N/A	N/A
894	6270	03.08.03-61		UAP-HF-12083 (4/3/12)	A2	N/A	N/A
894	6270	03.08.03-62		UAP-HF-12083 (4/3/12)	A2	N/A	N/A
894	6270	03.08.03-63		UAP-HF-12083 (4/3/12)	C	6	March 2013
894	6270	03.08.03-64		UAP-HF-12083 (4/3/12)	A2	N/A	N/A
894	6270	03.08.03-65		UAP-HF-12083 (4/3/12)	A2	N/A	N/A
894	6270	03.08.03-66		UAP-HF-12083 (4/3/12)	C	6	March 2013
905	6311	03.08.03-67		UAP-HF-12108 (5/16/12)	C	6	March 2013
905	6311	03.08.03-68		UAP-HF-12108 (5/16/12)	C	6	March 2013
905	6311	03.08.03-69		UAP-HF-12108 (5/16/12)	C	6	March 2013
905	6311	03.08.03-70		UAP-HF-12108 (5/16/12)	A2	N/A	N/A
905	6311	03.08.03-71		UAP-HF-12108 (5/16/12)	C	6	March 2013
905	6311	03.08.03-72		UAP-HF-12108 (5/16/12)	C	6	March 2013
905	6311	03.08.03-73		UAP-HF-12108 (5/16/12)	A2	N/A	N/A
905	6311	03.08.03-74		UAP-HF-12108 (5/16/12)	C	6	March 2013

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
905	6311	03.08.03-75		UAP-HF-12108 (5/16/12)	C	6	March 2013
905	6311	03.08.03-76		UAP-HF-12108 (5/16/12)	A2	N/A	N/A
905	6311	03.08.03-77		UAP-HF-12108 (5/16/12)	C	6	March 2013
905	6311	03.08.03-78		UAP-HF-12108 (5/16/12)	C	6	March 2013
905	6311	03.08.03-79		UAP-HF-12108 (5/16/12)	C	6	March 2013
905	6311	03.08.03-80		UAP-HF-12108 (5/16/12)	A2	N/A	N/A
909	6315	03.07.02-180		UAP-HF-12124 (6/5/12)	A2	N/A	N/A
909	6315	03.07.02-181		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-182		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-183		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-184		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-185		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-186		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-187		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-188		UAP-HF-12124 (6/5/12)	C	14	May 2013
909	6315	03.07.02-189		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-190		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-191		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-192		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-193		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-194		UAP-HF-12124 (6/5/12)	A2	14	N/A

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
909	6315	03.07.02-195		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-196		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-197		UAP-HF-12124 (6/5/12)	C	14	May 2013
909	6315	03.07.02-198		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-199		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-200		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-201		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-202		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-203		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-204		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-205		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-206		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-207		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-208		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-209		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-210		UAP-HF-12124 (6/5/12)	C	14	March 2013
909	6315	03.07.02-211		UAP-HF-12124 (6/5/12)	C	14	March 2013
931	6467	03.08.03-81		UAP-HF-12197 (8/20/12)	C	6	March 2013
931	6467	03.08.03-82		UAP-HF-12197 (8/20/12)	C	6	March 2013
931	6467	03.08.03-83		UAP-HF-12197 (8/20/12)	C	6	March 2013
931	6467	03.08.03-84		UAP-HF-12197 (8/20/12)	C	6	March 2013

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
931	6467	03.08.03-85		UAP-HF-12197 (8/20/12)	C	6	March 2013
931	6467	03.08.03-86		UAP-HF-12197 (8/20/12)	C	6	March 2013
931	6467	03.08.03-87		UAP-HF-12197 (8/20/12)	C	6	March 2013
931	6467	03.08.03-88		UAP-HF-12197 (8/20/12)	C	6	March 2013
931	6467	03.08.03-89		UAP-HF-12197 (8/20/12)	A2	N/A	N/A
939	6334	03.07.01-34		UAP-HF-12207 (7/20/12)	A2	N/A	N/A
939	6334	03.07.01-35		UAP-HF-12207 (7/20/12)	A2	N/A	N/A
939	6334	03.07.01-36		UAP-HF-12207 (7/20/12) UAP-HF-12265 (9/21/2012)	A2	N/A	N/A
939	6334	03.07.01-37		UAP-HF-12207 (7/20/12)	A2	N/A	N/A
939	6334	03.07.01-38		UAP-HF-12207 (7/20/12)	C	13	June 2013
939	6334	03.07.01-39		UAP-HF-12207 (7/20/12)	A2	N/A	N/A
940	6532	03.07.01-40		UAP-HF-12207 (7/20/12) UAP-HF-12265 (9/21/2012)	A2	N/A	N/A
940	6532	03.07.01-41		UAP-HF-12207 (7/20/12) UAP-HF-12265 (9/21/2012)	A2	N/A	N/A
940	6532	03.07.01-42		UAP-HF-12207 (7/20/12)	A2	N/A	N/A
940	6532	03.07.01-43		UAP-HF-12207 (7/20/12)	A2	N/A	N/A
950	6575	03.07.03-12		UAP-HF-12258 (9/18/12)	C	13	June 2013
958	6608	03.08.03-93		UAP-HF-12295 (11/19/2012)	C	6	March 2013
958	6608	03.08.03-95		UAP-HF-12295 (11/19/2012)	C	6	March 2013
958	6608	03.08.03-96		UAP-HF-12295 (11/19/2012)	C	6	March 2013

Table 4-1 Historical RAI Disposition

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Classification	Group (Note)	Date
960	6709	03.07.02-212		UAP-HF-12292 (12/19/ 2012)	C	N/A	March 2013
960	6709	03.07.02-215		UAP-HF-12292 (12/19/ 2012)	C	14	March 2013
960	6709	03.07.02-216 (a)(e)(g)(h)		UAP-HF-12292 (12/19/ 2012)	C	N/A	March 2013
960	6709	03.07.02-217 (a-f)		UAP-HF-12292 (12/19/ 2012)	C	N/A	March 2013
960	6709	03.07.02-220 (c)(d)(e)		UAP-HF-12292 (12/19/ 2012)	C	N/A	March 2013

Table 4-2 Outstanding RAIs Previously On Hold				
RAI Letter No.	eRAI No.	Question No.	Group	Date
821	5984	03.07.01-18	1	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-110	1	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-111	3	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-112	1	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-113	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-114	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-115	3	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-116	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-117	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-118	6	March 2013
852	6003	03.07.02-119	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-120	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-121	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-122	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-123	2	January 2013 Completed (UAP-HF-13017)

Table 4-2 Outstanding RAIs Previously On Hold				
RAI Letter No.	eRAI No.	Question No.	Group	Date
852	6003	03.07.02-124	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-125	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-126	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-127	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-128	6	March 2013
852	6003	03.07.02-129	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-130	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-131	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-132	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-133	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-134	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-135	2	January 2013 Completed (UAP-HF-13017)
852	6003	03.07.02-136	6	March 2013
852	6003	03.07.02-137	6	March 2013
852	6003	03.07.02-138	2	January 2013 Completed (UAP-HF-13017)
853	6029	03.07.02-139	10	February 2013
853	6029	03.07.02-140	10	February 2013
853	6029	03.07.02-141	10	February 2013

Table 4-2 Outstanding RAIs Previously On Hold				
RAI Letter No.	eRAI No.	Question No.	Group	Date
853	6029	03.07.02-142	10	February 2013
853	6029	03.07.02-143	10	February 2013
853	6029	03.07.02-144	10	February 2013
853	6029	03.07.02-145	10	February 2013
853	6029	03.07.02-146	10	February 2013
853	6029	03.07.02-147	10	February 2013
853	6029	03.07.02-148	10	February 2013
853	6029	03.07.02-149	10	February 2013
853	6029	03.07.02-150	10	February 2013
854	6088	03.07.02-151	4	January 2013 Completed (UAP-HF-13017)
854	6088	03.07.02-152	4	January 2013 Completed (UAP-HF-13017)
854	6088	03.07.02-153	4	January 2013 Completed (UAP-HF-13017)
854	6088	03.07.02-154	4	January 2013 Completed (UAP-HF-13017)
854	6088	03.07.02-155	10	February 2013
854	6088	03.07.02-156	10	February 2013
854	6088	03.07.02-157	3	January 2013 Completed (UAP-HF-13017)
854	6088	03.07.02-158	4	January 2013 Completed (UAP-HF-13017)
854	6088	03.07.02-159	3	January 2013 Completed (UAP-HF-13017)
854	6088	03.07.02-160	4	January 2013 Completed (UAP-HF-13017)
854	6088	03.07.02-161	4	January 2013 Completed (UAP-HF-13017)
854	6088	03.07.02-162	4	January 2013 Completed (UAP-HF-13017)

Table 4-2 Outstanding RAIs Previously On Hold				
RAI Letter No.	eRAI No.	Question No.	Group	Date
854	6088	03.07.02-163	4	January 2013 Completed (UAP-HF-13017)
855	6090	03.08.05-42	9	March 2013
855	6090	03.08.05-43	5	March 2013
855	6090	03.08.05-44	7	March 2013
855	6090	03.08.05-45	7	March 2013
856	6094	03.07.02-164	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-165	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-166	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-167	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-168	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-169	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-170	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-171	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-172	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-173	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-174	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-175	3	January 2013 Completed (UAP-HF-13017)

Table 4-2 Outstanding RAIs Previously On Hold				
RAI Letter No.	eRAI No.	Question No.	Group	Date
856	6094	03.07.02-176	3	January 2013 Completed (UAP-HF-13017)
856	6094	03.07.02-177	3	January 2013 Completed (UAP-HF-13017)
868	6156	03.07.02-178	3	January 2013 Completed (UAP-HF-13017)
868	6156	03.07.02-179	3	January 2013 Completed (UAP-HF-13017)

Table 4-3**Other Outstanding In-Process RAIs**

RAI Letter No.	eRAI No.	Question No.	Question No. (Sub-number)	Submittal Letter	Response Date
958	6608	03.08.03-90	N/A		March 2013
958	6608	03.08.03-91	N/A		March 2013
958	6608	03.08.03-92	N/A		March 2013
958	6608	03.08.03-94	N/A		March 2013
960	6709	03.07.02-213	N/A		March 2013
960	6709	03.07.02-214	N/A		March 2013
960	6709	03.07.02-216 (b)(c)(d)(f)	N/A		March 2013
960	6709	03.07.02-218	N/A		March 2013
960	6709	03.07.02-219	N/A		March 2013
960	6709	03.07.02-220 (a)(b)(f)(g)	N/A		March 2013
960	6709	03.07.02-221	N/A		March 2013
960	6709	03.07.02-222	N/A		March 2013
960	6709	03.07.02-223	N/A		March 2013
977	6899	03.08.03-97	N/A		March 2013
977	6899	03.08.03-98	N/A		March 2013
977	6899	03.08.03-99	N/A		March 2013
977	6899	03.08.03-100	N/A		March 2013
977	6899	03.08.03-101	N/A		March 2013
985	6948	03.08.03-102	N/A		May 2013
985	6948	03.08.03-103	N/A		May 2013
985	6948	03.08.03-104	N/A		May 2013
985	6948	03.08.03-105	N/A		May 2013
985	6948	03.08.03-106	N/A		May 2013
985	6948	03.08.03-107	N/A		May 2013
985	6948	03.08.03-108	N/A		May 2013
985	6948	03.08.03-109	N/A		May 2013

Notes:

Group:

Group 1	MUAP-10006 R3 Part 1
Group 2	MUAP-10006 R3 Part 2
Group 3	MUAP-10006 R3 Part 3 or General
Group 4	MUAP-11007 R2
Group 5	MUAP-12002 R1
Group 6	SC Module Related (MUAP-11013 R2, 11005 R1, 11018 R1, 11019 R1, 11020 R1, 12006 R0)
Group 7	Stability
Group 8	Earth Pressure
Group 9	Settlement
Group 10	MUAP-11006
Group 11	Design Reports
Group 12	Unrelated to any MUAP
Group 13	Specific Schedule Related
Group 14	MUAP-11002 R2 (Turbine Building)