July 16, 2009
US-APWR DCWG Meeting

US-APWR COL ITEMS

Purpose:

Purpose of this document is to list all of the currently defined COL information items as mainly listed in the US-APWR DCD and to categorize COL information items into "COL Applicant Item" or "COL Holder Item" and to define how to close those items.

Basis:

Basis for this document is as follows:

1) US-APWR Design Control Document (DCD) Revision 1
2) MHI Letter Ref: UAP-HF-08259 from Y. Ogata to U.S. NRC, Transmittal of "COL Information Update for US-APWR Design Control Document Revision 1" dated on November 7, 2008
3) MHI RAI Responses
4) Luminant Letter Ref: CP-200801755 from M. L. Lucas to U.S. NRC, Transmittal of "Comanche Peak Nuclear Power Plant, Units 3 and 4 Docket Numbers 52-034 and 52-035, Response to Request for Additional Information" dated on December 18, 2008.

Background:

COL information items (COL items in short) are defined in DCD Rev. 1.

However, during the acceptance review of the COLA for Comanche Peak 3 and 4 (R-COLA), which incorporates the US-APWR DCD by reference, the NRC raised questions about COL holder items in the R-COLA.

MHI performed a comprehensive review of those COL items in the DCD that are identified as COL holder items in the R-COLA. As a result of the examination, MHI has informed NRC of the proposed updates to be made to the COL items in the DCD including deletion of some COL items (above Basis 2).

In addition, in the process of RAI response to NRC or at the DCWG meetings, NRC has raised questions about COL items. As responses to the NRC, MHI and Luminant have also informed NRC of further updates of the COL items in the DCD including newly defined COL items and in the R-COLA (above Basis 4), respectively.

Present COL Item Classification:

All of the currently defined or planned COL items are listed in the attached tables. The attachment includes two sections:

- Section-1: ***"Status of Original COL Applicant Items"***
- Section-2: ***"Status of Original COL Holder Items"***

The following is the outline of the attached tables.

- COL Item Number: COL information item number
- COL Item Defined in the DCD Rev. 1: Originally defined COL items in the DCD Rev. 1.
- COL Item Proposed in MHI Letter: Updates of the COL items defined in MHI letter (Basis 2)
- Status or proposed resolutions in FSAR Rev. 1: Preliminary draft of the current status or further proposed resolutions of the COL Applicant Items or COL Holder Items, respectively.
- Preliminary Plan of COL Item Closure: COL information items are categorized into "COL Applicant Item" or "COL Holder Item." In addition, closure plan for the COL items are defined. There are several closure plans considered as listed below.

Preliminary Plan of COL Item Closure

COL Item associated with XXX in DCD	Before COL Issuance (FSAR Rev.0 /Rev.1 / Updates)	After COL Issuance (FSRA Updates)	PART 10	Preliminary Plan of COL Items Closure		
				"A" or "H"		Reason
Operational program (License Condition in RG 1.206 Table 13.4-1)	▪ "Fully described" description ▪ Implementation milestone	Actual program	Proposed License Condition	A	1a	"Applicant item" as License Condition for Operational program
Operational program (No License Condition in RG 1.206 Table 13.4-1)			N/A	A	1b	"Applicant item" as Commitment for Operational program
Plant procedure	▪ Brief description ▪ Implementation milestone	Actual procedure	N/A	A	2	"Applicant item" as Commitment for Plant procedure
Design information	▪ Sufficient information in FSAR Rev.0 / Rev.1	N/A	N/A	A	3a	"Applicant item" Design information provided in FSAR
	▪ Sufficient information to be provided in FSAR updates	N/A	N/A	A	3b	"Applicant item" as Commitment for Design information to be provided before COL issuance
	▪ Sufficient information to complete review for FSER	Sufficient information in FSAR updates	Proposed License Condition	H	3c	"Holder item"
Schedule information	▪ Implementation milestone	Detailed schedule in FSAR updates	N/A	A	4	"Applicant item" as Commitment for Implementation milestone

1. Status of Original COL Applicant Items

PRELIMINARY

COL item NO.	COL Item Defined in the DCD Rev.1	COL Item Proposed in MHI Letter UAP-HF-08259, dated on Nov 7, 2008	COL Item Re-proposal (Preliminary Draft, To be discussed at DCWG on July 16, 2009)	Reason	Status of FSAR Rev.1	Preliminary Plan of COL Item Closure	
						"A" or "H"	Reason
COL 1.1(1)	The COL Applicant is to provide scheduled completion date and estimated commercial operation date of nuclear power plants referencing the US-APWR standard design.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 1.1(2)	The Combined License (COL) Applicant is to identify the actual plant location.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 1.2(1)	The COL Applicant is to develop a complete and detailed site plan in the site-specific licensing process.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 1.8(1)	The COL Applicant is to demonstrate that the interface requirements established for the design have been met.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TSNB-09005)	A	3a
COL 1.8(2)	The COL Applicant is to provide the cross-reference identifying specific FSAR sections that address each COL information item from the DCD.	-	No change	-	Change of Table 1.8-201 to reflect COLA Item changes in DCD Rev1. (FSAR UTR Rev.1 Transmittal Number:TXNB-09009)	A	3a
COL 1.8(3)	The COL Applicant is to provide a summary of plant specific departures from the DCD, and conformance with site parameters.	-	No change	-	No change from FSAR Rev.0	A	3a
COL 1.9(1)	The COL Applicant is to address an evaluation of the applicable RG, SRP, Generic Issues including Three Mile Island (TMI) requirements, and operational experience for the site-specific portion and operational aspect of the facility.	-	No change	-	Editorial change of Table 1.9-201 and 1.9-203. (FSAR UTR Rev.0 Transmittal Number:TXNB-09005, and FSAR UTR Rev.2 Transmittal Number:TXNB-09016)	A	3a
COL 2.1(1)	The COL Applicant is to describe the site geography and demography including the specified site parameters.	-	No change	-	No change from FSAR Rev. 0	A	3a
COL 2.2(1)	The COL Applicant is to describe nearby industrial, transportation, and military facilities within 5 miles of the site, or at greater distances as appropriate based on their significance. The COL Applicant is to establish the presence of potential hazards, determine whether these accidents are to be considered as DBEs, and the design parameters related to the accidents determined as DBEs.	-	No change	-	Change based on a result of the NRC Hazards Analysis Site Audit (March 23 and 24, 2009). (FSAR UTR Rev.1 Transmittal Number:TXNB-09009)	A	3a
COL 2.3(1)	The COL Applicant is to provide site-specific pre-operational and operational programs for meteorological measurements, and is to verify the site-specific regional climatology and local meteorology are bounded by the site parameters for the standard US-APWR design or demonstrate by some other means that the proposed facility and associated site-specific characteristics are acceptable at the proposed site.	-	The COL Applicant, whether the plant is to be sited inside or outside the continental US, is to provide site-specific pre-operational and operational programs for meteorological measurements, and is to verify the site-specific regional climatology and local meteorology are bounded by the site parameters for the standard US-APWR design or demonstrate by some other means that the proposed facility and associated site-specific characteristics are acceptable at the proposed site.	MHI letter UAP-HF-09277	Editorial change (FSAR UTR Rev.1 Transmittal Number:TXNB-09009)	A	3a

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						"A" or "H"	Reason
COL 2.3(2)	The COL Applicant is to provide conservative factors as described in SRP 2.3.4 (Reference 2.3-2). If a selected site will cause excess to the bounding χ/Q values, then the COL Applicant is to demonstrate how the dose reference values in 10 CFR 50.34 (Reference 2.3-3) and the control room dose limits in 10 CFR 50, Appendix A, General Design Criteria 19 (Reference 2.3-4) are met using site-specific χ/Q values.	-	The COL Applicant is to provide conservative factors as described in SRP 2.3.4 (Reference 2.3-2). If a selected site will cause excess to the bounding χ /Q values, then the COL Applicant is to demonstrate how the dose reference values in 10 CFR ~~50.34~~ 52.79(a)(1)(vi) (Reference 2.3-3) and the control room dose limits in 10 CFR 50, Appendix A, General Design Criteria 19 (Reference 2.3-4) are met using site-specific c/Q values.	MHI letter UAP-HF-08179	No change from FSAR Rev. 0.	A	3a
COL 2.3(3)	The COL Applicant is to characterize the atmospheric transport and diffusion conditions necessary for estimating radiological consequences of the routine release of radioactive materials to the atmosphere, and provide realistic estimates of annual average □ /Q values and D/Q values as described in SRP 2.3.5 (Reference 2.3-5).	-	No change	-	Errata for Subsection 2.3.1. (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 2.4(1)	The COL Applicant is to provide sufficient information to verify that hydrologic-related events will not affect the safety-basis for the US-APWR.	-	No change	-	Change based on a result of COLA RAI #0 Questions 2.4.13-1 through 2.4.13-7. (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 2.5(1)	The COL Applicant is to provide sufficient information regarding the seismic and geologic characteristics of the site and the region surrounding the site.	-	No change	-	Change based on the NRC comments during NRC acceptance review. (FSAR UTR Rev.0 Transmittal Number:TXNB-09005, and FSAR UTR Rev.2 Transmittal Number:TXNB-09016)	A	3a
COL 3.1(1)	The COL Applicant is to provide a design that allows for the appropriate inspections and layout features of the ESWS.	-	No change	-	No change from FSAR Rev.0	A	3a
COL 3.2(1)	Deleted.						
COL 3.2(2)	Deleted.						
COL 3.2(3)	Deleted.						
COL 3.2(4)	The COL Applicant is to identify the site-specific, safety-related systems and components that are designed to withstand the effects of earthquakes without loss of capability to perform their safety function; and those site-specific, safety-related fluid systems or portions thereof; as well as the applicable industry codes and standards for pressure-retaining components.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.2(5)	The COL Applicant is to identify the equipment class and seismic category of the site-specific, safety-related and non safety-related fluid systems, components (including pressure retaining), and equipment as well as the applicable industry codes and standards.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 3.3(1)	The COL Applicant is responsible for verifying the site-specific basic wind speed is enveloped by the determinations in this section.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.3(2)	These requirements also apply to seismic category I structures provided by the COL Applicant. Similarly, it is the responsibility of the COL Applicant to establish the methods for qualification of tornado effects to preclude damage to safety-related SSCs.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.3(3)	It is the responsibility of the COL Applicant to assure that site-specific structures and components not designed for tornado loads will not impact either the function or integrity of adjacent safety-related SSCs, or generate missiles having more severe effects than those discussed in Subsection 3.5.1.4.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.3(4)	The COL Applicant is to provide the wind load design method and importance factor for site-specific category I and category II buildings and structures.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.3(5)	The COL Applicant is to note the vented and unvented requirements of this subsection to the site-specific category I buildings and structures.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.4(1)	The COL Applicant is to address the site-specific design of plant grading and drainage.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.4(2)	The COL Applicant is to demonstrate the DBFL bounds their specific site, or is to identify and address applicable site conditions where static flood level exceed the DBFL and/or generate dynamic flooding forces.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.4(3)	Site-specific flooding hazards from engineered features, such as from cooling water system piping, is to be addressed by the COL Applicant.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.4(4)	The COL Applicant is to address any additional measures below grade to protect against exterior flooding and the intrusion of ground water into seismic category I buildings and structures.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.4(5)	The COL Applicant is to identify and design, if necessary, any site-specific flood protection measures such as levees, seawalls, floodwalls, site bulkheads, revetments, or breakwaters per the guidelines of RG 1.102 (Reference 3.4-3), or dewatering system if the plant is not built above the DBFL.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.4(6)	The COL Applicant is to identify any site-specific physical models used to predict prototype performance of hydraulic structures and systems.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 3.5(3)	As described in DCD, Section 2.2, the COL Applicant is to establish the presence of potential hazards, except aircraft, which is reviewed in Subsection 3.5.1.6, and the effects of potential accidents in the vicinity of the site.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.5(4)	It is the responsibility of the COL Applicant to verify the site interface parameters with respect to aircraft crashes and air transportation accidents as described in Section 2.2.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.5(5)	The COL Applicant is responsible to evaluate site-specific hazards for external events that may produce missiles more energetic than tornado missiles, and assure that the design of seismic category I and II structures meet these loads.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.5(6)	The COL Applicant is responsible to assess the orientation of the T/G of this and other unit(s) at multi-unit site for the probability of missile generation using the evaluation of Subsection 3.5.1.3.2.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.6(1)	The COL Applicant is to identify the site-specific systems or components that are safety-related or required for safe shutdown that are located near high-energy or moderate-energy piping systems, and are susceptible to the consequences of these piping failures. The COL Applicant is to provide a list of site-specific high-energy and moderate-energy piping systems, which includes a description of the layout of all piping systems where physical arrangement of the piping systems provides the required protection, the design basis of structures and compartments used to protect nearby essential systems or components, or the arrangements to assure the operability of safety-related features where neither separation nor protective enclosures are practical. Additionally, the COL Applicant is to provide the failure modes and effect analyses that verifies the consequences of failures in site-specific high-energy and moderate-energy piping does not affect the ability to safely shut down the plant.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.6(2)	Deleted						
COL 3.6(3)	Deleted						

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COL 3.6(4)	The COL Applicant is to implement the criteria of the following subsections for defining break and crack locations and configurations, and the locations and configurations of design basis pipe break and crack locations and configurations for site-specifichigh-energy and moderate-energy piping systems. The COL Applicant is to identify the postulated rupture orientation of each postulated break location for site-specific high-energy and moderate-energy piping systems. The COL Applicant is to implement the appropriate methods to assure that as-built configuration of site-specific high-energy and moderate-energy piping systems is consistent with the design intent and provide as-built drawings showing component locations and support locations and types that confirms this consistency.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.6(5)	Deleted						
COL 3.6(6)	The COL Applicant is to discuss the implementation of criteria dealing with special features, if any.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.6(7)	Deleted						
COL 3.6(8)	Deleted						
COL 3.6(9)	Deleted						
COL 3.7(1)	The COL Applicant is to confirm that the site-specific PGA at the basemat level control point of the CSDRS is less than or equal to 0.3 g.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(2)	The COL Applicant is to perform an analysis of the US-APWR standard plant seismic category design to verify that the site-specific FIRS at the basemat level control point of the CSDRS are enveloped by the site-independent CSDRS.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.7(3)	It is the responsibility of the COL Applicant to develop analytical models appropriate for the seismic analysis of buildings and structures that are designed on a site-specific basis including, but not limited to, the following: • PSFSVs (seismic category I) • ESWPT (seismic category I) • UHSRS (seismic category I)	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 3.7(4)	To prevent non-conservative results, the COL Applicant is to review the resulting level of seismic response and determine appropriate damping values for the site-specific calculations of ISRS that serve as input for the seismic analysis of seismic category I and seismic category II subsystems.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(5)	The COL Applicant is to assure that the horizontal FIRS defining the site-specific SSE ground motion at the bottom of seismic category I or II basemats envelope the minimum response spectra required by 10 CFR 50, Appendix S, and the site-specific responsespectra obtained from the response analysis.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(6)	The COL Applicant is to develop site-specific GMRS and FIRS by an analysis methodology, which accounts for the upward propagation of the GMRS. The FIRS are compared to the CSDRS to assure that the US-APWR standard plant seismic design is valid for a particular site. If the FIRS are not enveloped by the CSDRS, the US-APWR standard plant seismic design is modified as part of the COLA in order to validate the US-APWR for installation at that site.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(7)	The COL Applicant is to determine the allowable dynamic bearing capacity based on site conditions, and to evaluate the bearing load to this capacity.	-	No change	-	Editorial change in Table 3.8-202 (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.7(8)	The COL Applicant is to institute dynamic testing to evaluate the strain-dependent variation of the material dynamic properties for site materials with initial shear wave velocities below 3,500 ft/s.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(10)	It is the responsibility of the COL Applicant to further address structure-to-structure interaction if the specific site conditions can be important for the seismic response of particular US-APWR seismic category I structures, or may result in exceedance of assumed pressure distributions used for the US-APWR standard plant design.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(12)	It is the responsibility of the COL Applicant to design seismic category I below- or above-ground liquid-retaining metal tanks such that they are enclosed by a tornado missile protecting concrete vault or wall, in order to confine the emergency gas turbin fuel supply.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(13)	The COL Applicant is to set the value of the OBE that serves as the basis for defining the criteria for shutdown of the plant, according to the site specific conditions.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 3.7(14)	The COL Applicant is to determine from the site-specific geological and seismological conditions if multiple US-APWR units at a site will have essentially the same seismic response, and based on that determination, choose if more than one unit is providedwith seismic instrumentation at a multiple-unit site.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(16)	The COL Applicant is to verify the site-specific applicability of these monitors, and determine if there is a need for the installation of additional instrumentation for the measurement of the free-field ground motion based on conditions and requirements specific to the site.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(17)	Deleted						
COL 3.7(20)	The COL Applicant is to validate the site-independent seismic design of the standard plant for site-specific conditions, including geological, seismological, and geophysical characteristics, and to develop the site-specific GMRS as free-field outcrop motions on the uppermost in-situ competent material.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(21)	The COL Applicant is responsible for the seismic design of those seismic category I and seismic category II SSCs that are not part of the US-APWR standard plant.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(22)	The COL Applicant is required to perform site-specific seismic analyses, including SSI analysis which considers seismic wave transmission incoherence and analysis of the CAV of the seismic input motion, in order to determine if high-frequency exceedances of the CSDRS could be transmitted to SSCs in the plant superstructure with potentially damaging effects.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(23)	The COL Applicant is to verify that the results of the site-specific SSI analysis for the broadened ISRS and basement walls lateral soil pressures are enveloped by the US-APWR standard design.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(24)	The COL Applicant is to verify that the site-specific ratios V/A and AD/V2 (A, V, D, are PGA, ground velocity, and ground displacement, respectively) are consistent with characteristic values for the magnitude and distance of the appropriate controlling events defining the site-specific uniform hazard response spectra.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 3.7(25)	The COL Applicant referencing the US-APWR standard design is required to perform a site-specific SSI analysis for the R/B-PCCV-containment internal structure utilizing the program ACS SASSI SSI Version 2.2 (Reference 3.7-17) which contains time history input incoherence function capability. The SSI analysis using SASSI is required in order to confirm that site-specific effects are enveloped by the standard design. After the SASSI analysis is first performed for a specific unit, subsequent COLAs for other units may be able to forego SASSI analyses if the FIRS and GMRS derived for those subsequent units are much smaller than the US-APWR standard plant CSDRS, and if the subsequent unit can also provide justification through comparison of site-specific geological and seismological characteristics.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(26)	SSI effects are also considered by the COL Applicant in site-specific seismic design of any seismic category I and II structures that are not included in the US-APWR standard plant. Consideration of structure-to-structure interaction is discussed in Subsection 3.7.2.8. The site-specific SSI analysis is performed for buildings and structures including, but not limited to, to the following: • Seismic category I ESWPT • Seismic category I PSFSV • Seismic category I UHSRS	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(27)	I It is the responsibility of the COL Applicant to perform any site-specific seismic analysis for dams that may be required.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(28)	The overall basemat dimensions, basemat embedment depths, and maximum height of the US-APWR R/B, PCCV, and containment internal structure on their common basemat are given in Table 3.7.1-3 and as updated by the COL Applicant to include site-specific seismic category I structures.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.7(29)	Table 3.7.2-1, as updated by the COL Applicant to include site-specific seismic category I structures, presents a summary of dynamic analysis and combination techniques including types of models and computer programs used, seismic analysis methods, and meic category I structures.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.7(30)	The COL Applicant is to provide site-specific design ground motion time histories and durations of motion.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 3.8(3)	It is the responsibility of the COL Applicant to assure that any material changes based on site-specific material selection for construction of the PCCV meet the requirements specified in ASME Code, Section III, Article CC-2000 of the code and supplementary requirements of RG 1.136 as well as SRP 3.8.1.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.8(7)	It is the responsibility of the COL Applicant to determine the site-specific aggressivity of the ground water/soil and accommodate this parameter into the concrete mix design as well as into the site-specific structural surveillance program.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.8(10)	The prestressing system is designed as a strand system, however the system material may be switched to a wire system at the choice of the COL Applicant. If this is done, the COL Applicant is to adjust the US-APWR standard plant tendon system design and details on a site-specific basis.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.8(11)	Deleted						
COL 3.8(15)	The COL Applicant is responsible for the seismic design of those seismic category I and seismic category II SSCs not part of the US-APWR standard plant, including the following non-standard seismic category I structures designed to the site-specific SSE: • ESWPT • UHSRS • PSFSVs	-	The COL Applicant is responsible for the seismic design of those seismic category I and seismic category II SSCs not seismically designed as part of the US-APWR standard plant, including the following ~~non-standard~~ seismic category I structures designed to the site-specific SSE: • ESWPT • UHSRS • PSFSVs	MHI letter UAP-HF-09152	No Change from FSAR Rev.0	A	3a
COL 3.8(16)	Deleted						
COL 3.8(17)	Deleted						
COL 3.8(18)	Deleted						
COL 3.8(19)	The design and analysis of the ESWPT, UHSRS, PSFSVs, and other site-specific structures are to be provided by the COL Applicant based on site-specific seismic criteria.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.8(20)	The COL Applicant is to identify any applicable externally generated loads. Such site-specific loads include those induced by floods, potential non-terrorism related aircraft crashes, explosive hazards in proximity to the site, and projectiles and missiles generated from activities of nearby military installations.	-	No change	-	No Change from FSAR Rev.0	A	3a

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PRELIMINARY

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						"A" or "H"	Reason
COL 3.8(21)	Deleted						
COL 3.8(23)	The COL Applicant is to determine if the site-specific zone of maximum frost penetration extends below the depth of the basemats for the standard plant, and to pour lean concrete under any basemat above the frost line so that the bottom of lean concrete is below the maximum frost penetration level.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.8(24)	Other non-standard seismic category I buildings and structures of the US-APWR are designed by the COL Applicant based on site-specific subgrade conditions.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.8(25)	The site-specific COL are to assure the design criteria listed in Chapter 2, Table 2.0-1, is met or exceeded.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.8(26)	Subsidence and differential displacement may therefore be reduced to less than 2 in. if justified by the COL Applicant based on site specific soil properties.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.8(27)	The COL Applicant is to specify normal operating thermal loads for site-specific structures, as applicable.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.8(28)	*The COL Applicant is to specify concrete* strength utilized in non-standard plant seismic category I structures.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.8(29)	The COL Applicant is to provide design and analysis procedures for the ESWPT, UHSRS, and PSFSVs.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.9(1)	The COL Applicant is to assure snubber functionality in harsh service conditions, including snubber materials (e.g., lubricants, hydraulic fluids, seals).	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.9(3)	Deleted						
COL 3.9(4)	Deleted						
COL 3.9(5)	Deleted						
COL 3.9(6)	The COL Applicant is to provide the program plan for IST of dynamic restraints in accordance with ASME OM Code.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 3.9(9)	The COL Applicant is to identify MOVs that require non-intrusive diagnostic testing technique.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.9(10)	The COL Applicant is to identify the site-specific active pumps.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.9(11)	The COL Applicant is to provide site-specific, safety-related pump IST parameters and frequency.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.9(12)	The COL Applicant is to provide type of testing and frequency of site-specific valves subject to IST in accordance with the ASME Code.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.10(2)	Deleted						
COL 3.10(4)	Deleted						
COL 3.10(6)	Deleted						
COL 3.10(7)	Deleted						
COL 3.10(8)	For design of seismic category I and II SSCs that are not part of the standard plant, the COL Applicant can similarly eliminate the OBE, or optionally set the OBE higher than 1/3 SSE, provided the design of the non-standard plant's SSCs are analyzed for the chosen OBE.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.10(9)	The COL Applicant is to investigate if site-specific in-structure response spectra generated for the COL application may exceed the standard US-APWR design's in-structure response spectra in the high-frequency range. Accordingly, the COL Applicant is to consider the functional performance of vibration-sensitive components, such as relays and other instrument and control devices whose output could be affected by high frequency excitation.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.11(1)	The COL Applicant is responsible for assembling and maintaining the environmental qualification document, which summarizes the qualification results for all equipment identified in Appendix 3D, for the life of the plant.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.11(2)	The COL Applicant is to describe how the results of the qualification tests are to be recorded in an auditable file in accordance with requirements of 10 CFR 50.49 (j).	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 3.11(3)	The COL Applicant is to provide a schedule showing the EQ Program proposed implementation milestones.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.11(4)	The COL Applicant is to describe periodic tests, calibrations, and inspections to be performed during the life of the plant, which verify the identified equipment remains capable of fulfilling its intended function.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.11(5)	The COL Applicant is to identify the site-specific equipment to be addressed in the EQ Program, including locations and environmental conditions.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.11(6)	The COL Applicant is to qualify site-specific electrical and mechanical equipment (including instrumentation and control, and certain accident monitoring equipment) using an equivalent qualification process to that delineated for the US-APWR Standard Plant.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.11(7)	The COL Applicant is to identify chemical and radiation environmental requirements for site-specific qualification of electrical and mechanical equipment (including instrumentation and control, and certain accident monitoring equipment).	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 3.11(8)	The COL Applicant is to provide the site-specific mechanical equipment requirements.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.11(9)	Optionally, the COL Applicant may revise the parameters based on site-specific considerations.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.12(1)	Deleted						
COL 3.12(2)	If any piping is laid out in the yard, the COL Applicant is to generate site-specific seismic response spectra, which may be used for the design of these piping systems or portions of piping system.	-	If any piping is ~~laid out~~ routed in tunnels or trenches in the yard, the COL Applicant is to generate site-specific seismic response spectra, which may be used for the design of these piping systems ~~or portions of piping system~~	MHI letter UAP-HF-09184	No Change from FSAR Rev.0	A	3a
COL 3.12(3)	If the COL Applicant finds it necessary to lay ASME Code, Section III (Reference 3.12-2), Class 2 or 3 piping exposed to wind or tornado loads, then such piping must be designed to the plant design basis loads.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.12(4)	The COL Applicant is to screen piping systems that are sensitive to high frequency modes for further evaluation.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 3.13(3)	The COL Applicant is to retain quality records including certified material test reports for all property test and analytical work performed on nuclear threaded fasteners in accordance with the requirements of 10 CFR 50.71.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 3.13(5)	The COL Applicant is to commit to complying with the requirements of ASME Code, Section XI, IWA-5000 (Reference 3.13-14), and the requirements of 10 CFR 50.55a(b)(2)(xxvi) (Reference 3.13-11), Pressure Testing Class 1, 2, and 3 Mechanical Joints, and Paragraph (xxvii) Removal of Insulation.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 5.2(1)	ASME Code Cases that are approved in Regulatory Guide 1.84; The COL applicant addresses the addition of ASME Code Cases that are approved in Regulatory Guide 1.84.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 5.2(6)	Deleted because this item is provided in ISI program stated in COL 5.2(4), and already described in the DCD.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 5.2(7)	Deleted because this item is already described in the DCD.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 5.2(8)	Deleted because this item is discussed in Table 2.4.2-5 in Tier-1.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 5.2(9)	Deleted because this item is discussed in Table 2.4.2-5 in Tier-1.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 5.3(3)	Surveillance Capsule Orientation and Lead Factors; The COL applicant addresses the orientation and resulting lead factors for the surveillance capsules of a particular US-APWR plant.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 5.3(4)	Reactor Vessel Material Properties Verification; The COL applicant verifies the USE and RTNDT at EOL, including a PTS evaluation based on actual material property requirements of the reactor vessel material and the projected neutron fluence for the design-life objective of 60 years.	-	No change	-	Change to reflect the response to COLA RAI No.2.	A	3a
COL 5.4(1)	Deleted						
COL 5.4(2)	Deleted						

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COL 5.4(3)	Deleted						
COL 5.4(4)	Deleted						
COL 5.4(5)	Deleted						
COL 5.4(6)	Deleted						
COL 5.4(7)	Deleted						
COL 6.1(6)	Deleted						
COL 6.2(2)	Deleted						
COL 6.2(3)	Deleted						
COL 6.2(4)	Deleted						
COL 6.2(10)	Deleted.						
COL 6.3(1)	Deleted.						
COL 6.3(2)	Deleted.						
COL 6.3(5)	Deleted.						
COL 6.4(1)	The COL Applicant is responsible to provide details of specific toxic chemicals of mobile and stationary sources within the requirements of RG 1.78 (Ref 6.4-4) and evaluate the control room habitability based on the recommendation of RG 1.78 (Ref 6.4-4).	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 6.4(3)	Deleted						
COL 6.4(5)	The number, locations, sensitivity, range, type, and design of the toxic gas detectors are COL items. Depending on proximity to nearby industrial, transportation, and military facilities, and the nature of the activities in the surrounding area, as well as specific chemicals onsite, the COL Applicant is responsible to specify the toxic gas detection requirements necessary to protect the CRE.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 6.5(1)	Deleted.						

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COL 6.5(2)	Deleted .						
COL 6.5(3)	Deleted .						
COL 7.3(1)	Deleted						
COL 7.4(1)	The COL applicant is to provide a description of component controls and indications required for safe shutdown related to the UHS.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 7.5(1)	The COL applicant is to provide a description of PAM variables related to the UHS.	-	The COL applicant is to provide a description of site-specific PAM variables ~~related to the UHS~~.	MHI letter UAP-HF-09196	Change to reflect the response to DCD RAI No.238	A	3a
COL 7.5(2)	The COL applicant is to provide a description of the site-specific EOF.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 7.9(1)	Deleted						
COL 8.2(1)	The COL applicant is to address transmission system of the utility power grid and its interconnection to other grids.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 8.2(2)	Deleted	-	No change	-			
COL 8.2(3)	The COL applicant is to address plant switchyard includes layout, control system and characteristics of circuit breakers and buses.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 8.2(4)	The COL applicant is to provide detail description of normal preferred power.	-	No change	-	Editorial Cange (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 8.2(5)	The COL applicant is to provide detail description of alternate preferred power.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 8.2(6)	Deleted	-					
COL 8.2(7)	The COL applicant is to address protective relaying for each circuit such as lines and buses.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 8.2(8)	The COL applicant is to address switchyard dc power as part of switchyard design description.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 8.2(9)	The COL applicant is to address switchyard ac power as part of switchyard design description.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 8.2(10)	The COL applicant is to address transformer protection corresponded to site-specific scheme.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 8.2(11)	The COL applicant is to address stability and reliability study of the offsite power system. Stability study is to be addressed in accordance with BTP 8-3 (Reference 8.2-17). A failure modes and effects analysis (FMEA) is to be provided.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 8.2(12)	Deleted	-					
COL 8.3(1)	The COL applicant is to provide transmission voltages. This includes also MT and RAT voltage ratings.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 8.3(3)	The COL applicant is to provide short circuit analysis for ac power system, since the system contribution is site specific.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 8.3(4)	Deleted	-					
COL 8.3(5)	Deleted	-					
COL 8.3(6)	Deleted	-					
COL 8.3(7)	Deleted	-					
COL 8.3(8)	The COL applicant is to provide short circuit analysis for dc power system.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 8.3(9)	Deleted						
COL 9.1(2)	Deleted						
COL 9.1(3)	Deleted						
COL 9.1(4)	Deleted						
COL 9.1(5)	Deleted						
COL 9.1(6)	Deleted	-	To assure proper handling of heavy loads during the plant life, the COL Applicant is to establish a heavy load handling program, including associated procedural and administrative controls, that satisfies commitments made in Subsection 9.1.5 of the DCD, and that meets the guidance of ANSI/ASME B30.2, ANSI/ASME B30.9, ANSI N14.6, ASME NOG-1, CMAA Specification 70-2000, NUREG-0554, NUREG-0612, and NUREG-0800, Section 9.1.5. During the operating life of the plant, it is anticipated that temporarily installed hoists and mobile cranes will also be used for plant maintenance. The heavy load handling program will include temporary cranes and hoists. The heavy load handling program will adopt a defense-in-depth strategy to enhance safety	MHI letter UAP-	TBD	A	3a

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			when handling heavy loads. For instance, the program will restrict lift heights to practical minimums and limit lifting activities as much as practical to plant modes in which load drops have the smallest potential for adverse consequences, particularly when critical loads are being handled. Further, prior to the lifting of heavy loads after initial fuel loading, the program will institute any review as necessary to assure that potential drops of these loads due to inadvertent operations or equipment malfunctions, separately or in combination, will not jeopardize safe shutdown functions, cause a significant release of radioactivity, a criticality accident, or inability to cool fuel within the reactor vessel or spent fuel pool.	HF-09260			
COL 9.1(7)	Deleted						
COL 9.1(8)	Deleted						
COL 9.2(1)	The COL Applicant is to provide the evaluation of the ESWP at the lowest probable water level of the UHS.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(2)	The COL Applicant is to provide the protection against adverse environmental, operating, and accident conditions that can occur, such as freezing, thermal overpressurization.	-	No change	-	Editorial Cange (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 9.2(3)	The COL Applicant is to determine source and location of the UHS.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(4)	The COL Applicant is to determine location and design of the ESW intake structure.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(5)	The COL Applicant is to determine location and design of the ESW discharge structure.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(6)	The COL Applicant is to provide ESWP design details – required total dynamic head, NPSH available etc.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(7)	The COL Applicant is to provide the piping, valves and other design of the ESWS related to the site specific conditions, including the safety evaluation.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(8)	The COL Applicant is to specify ESW chemistry requirements.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(9)	COL Applicant is to confirm the storage capacity and usage of the potable water.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 9.2(10)	COL Applicant is to confirm that all State and Local Department of Health of Natural Resources Environmental Protection Standards are applied and followed.	-	COL Applicant is to confirm that all State and Local Departments~~of Health of Natural~~ and Resources and Environmental Protection Standards are applied and followed.	MHI letter UAP-HF-09016	Change to reflect the response to DCD RAI No.125 (FSAR UTR Rev.3)	A	3a
COL 9.2(11)	The COL Applicant is to confirm the source of potable water to the site and the necessary required treatment.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(12)	COL Applicant is to confirm that the sanitary waste is sent to the onsite plant treatment area or they will use the city sewage system.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(13)	COL Applicant is to identify the portable water supply and describe the system operation.	-	COL Applicant is to identify the~~portable~~ potable water supply and describe the system operation.	MHI letter UAP-HF-09016	No Change from FSAR Rev.0	A	3a
COL 9.2(14)	COL Applicant is to confirm Table 9.2.4-1 for required components and their values.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(15)	The COL Applicant is to determine the total number of people at the site and identify the usage capacity. Based on these numbers the COL Applicant is to size the potable water tank and associated pumps.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(16)	The COL Applicant is to provide values to the component Table 9.2.4-1 based on the calculations performed for COL 9.2.4.2.1.	-	The COL Applicant is to provide values to the component Table 9.2.4-1based ~~on the calculations performed for COL 9.2.4.2.1~~ system and component descriptions from Section 9.2.4.2.1 and 9.2.4.2.2 respectively.	MHI letter UAP-HF-09016	Change to reflect the response to DCD RAI No.125 (FSAR UTR Rev.3)	A	3a
COL 9.2(17)	The COL Applicant is to determine the total number of sanitary lift stations and is to size the appropriate interfaces.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(18)	The COL Applicant is to determine the type of the UHS based on specific site conditions and meteorological data.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 9.2(19)	The COL Applicant is to design the UHS to receive its electrical power supply, if required by the UHS design, from safety busses so that the safety functions are maintained during LOOP. The UHS also receives its standby electrical power from the onsite emergency power supplies during a LOOP.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(20)	The COL Applicant is to provide a detailed description and drawings of the UHS, including water inventory, temperature limits, heat rejection capabilities, instrumentation, and alarms.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(21)	The COL Applicant is to determine the source of makeup water to the UHS inventory and the blowdown discharge location based on specific site conditions.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(22)	The COL Applicant is to provide results of UHS capability and safety evaluation of the UHS based on specific site conditions and meteorological data. The COL Applicant is to use at least 30 years site specific meteorological data and heat loads data for UHS performance analysis.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(23)	The COL Applicant is to provide test and inspection requirements of the UHS. These is to include inspection and testing requirements necessary to demonstrate that fouling and degradation mechanisms are adequately managed to maintain acceptable UHS performance and integrity.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.2(24)	The COL Applicant is to provide the required alarms, instrumentation and controls details based on the type of UHS to be provided.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.3(1)	The COL Applicant is to provide the high pressure nitrogen gas, low pressure nitrogen gas, the hydrogen gas, carbon dioxide, and oxygen supply systems.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.3(2)	Deleted						
COL 9.3(3)	Deleted						
COL 9.3(4)	Deleted						
COL 9.3(5)	Deleted						
COL 9.3(6)	Deleted						

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COL 9.3(7)	Deleted						
COL 9.4(1)	Deleted						
COL 9.4(2)	Deleted						
COL 9.4(3)	Deleted						
COL 9.4(4)	The COL Applicant is to determine the capacity of cooling and heating coils that are affected by site specific conditions.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 9.4(5)	Deleted						
COL 9.4(6)	The COL Applicant is to provide a system information and flow diagram of ESW pump area ventilation system if the ESW pump area requires the heating, ventilating and air conditioning.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.5(2)	The COL Applicant addresses the design and fire protection aspects of the facilities, buildings and equipments, such as cooling towers and a fire protection water supply system, which are site specific and/or are not a standard feature of the US-APWR.	-	The COL Applicant is responsible to perform a final FHA and safe-shutdown evaluation based on the final plant cable routing, fire barrier ratings, fire loading, ignition sources, purchased equipment and equipment arrangement. The final FHA and safe-shutdown evaluation shall include a review against the assumptions and requirements stated in the initial FHA and safe-shutdown evaluation provided in the DCD. The final FHA and safe-shutdown evaluation shall also include a detailed post-fire safe-shutdown circuit analysis performed and documented using a methodology similar to that described in NEI 00-01, "Guidance for Post-Fire Safe-Shutdown Circuit Analysis," using as-built data. The final FHA shall be performed and documented as an update to the COLA application and maintained in the licensing basis for the specific site located plant (COL Item 9.5(2)).	MHI letter UAP-HF-08173	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 9.5(3)	The COL Applicant provides apparatus for plant personnel and fire brigades such as portable fire extinguishers and self contained breathing apparatus.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.5(4)	The COL Applicant addresses all communication system interfaces external to the plant (offsite locations). These include interfaces to utility private networks, commercial carriers and the federal telephone system. The configuration of these connections will include consideration of the concerns raised in IE Bulletin 80-15.	-	No change	-	No Change from FSAR Rev.0	A	3a

1. Status of Original COL Applicant Items

PRELIMINARY

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						"A" or "H"	Reason
COL 9.5(5)	The COL Applicant addresses the emergency offsite communications including the crisis management radio system.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.5(6)	The COL Applicant addresses connections to the Technical Support Center from where communications networks are provided to transmit information pursuant to the requirements delineated in 10 CFR 50 Appendix E, Part IV.E.9.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.5(7)	The COL Applicant addresses a continuously manned alarm station required by 10 CFR 73.46(e)(5) and the communications requirements delineated in 10 CFR 73.45(g)(4)(i) and (ii). The COL Applicant addresses notification of an attempted unauthorized or unconfirmed removal of strategic special nuclear material in accordance with 10 CFR 73.45(e)(2)(iii).	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.5(8)	The COL Applicant addresses offsite communications for the onsite operations support center.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.5(9)	The COL Applicant addresses the emergency communication system requirements delineate in 10 CFR 73.55(f) such that a single act cannot remove onsite capability of calling for assistance and also as redundant system during onsite emergency crisis.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 9.5(10)	Delete.						
COL 9.5(11)	-	-	The COL Applicant is to specify that adequate and acceptable sources of fuel oil are available, including the means of transporting and recharging the fuel storage tank, following a design basis accident.	MHI letter UAP-HF-09292	TBD	A	3a
COL 10.3(1)	FAC monitoring program; The Combined License Applicant is to address preparation of a *FAC monitoring program for carbon steel* portions of the steam and power conversion systems that contain water or wet steam.	-	The Combined License Applicant ~~is to address reparation~~ will provide a description of a the FAC monitoring program for carbon steel portions of the steam and power conversion systems that contain water or wet steam. The description will be address consistency with Generic Letter 89-08 and NSAC-202L-R3 and will provide a milestone schedule for implementation of the program.	MHI letter UAP-HF-09142	Change to reflect the response to DCD RAI No.250 (FSAR UTR Rev.3)	A	3a

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COL 10.3(3)	-	-	Operating and maintenance procedures for water hammer prevention; The Combined License Applicant will provide a milestone schedule for implementation of the procedure.		TBD	A	3a
COL 10.4(1)	Circulating Water System; The Combined License Applicant is to determine the site specific final system configuration and system design parameters for the CWS including makeup water and blowdown.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 10.4(2)	Steam Generator Blowdown System; The Combined License applicant is to address the discharge to Waste Water System including site specific requirements.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 10.4(3)	Deleted.				No Change from FSAR Rev.0	A	3a
COL 10.4(4)	Deleted.				No Change from FSAR Rev.0	A	3a
COL 10.4(5)	System Design for Steam Generator Drain; The Combined License applicant is to address the nitrogen or equivalent system design for Steam Generator Drain Mode. (This is dependent on Waste water system design)	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.2(1)	The COL applicant is responsible for ensuring that mobile and temporary liquid radwaste processing equipment and its interconnection to plant systems conforms to regulatory requirements and guidance such as 10 CFR 50.34a (Ref. 11.2-5), 10 CFR 20.1406 (Ref.11.2-7) and RG 1.143 (Ref. 11.2-3), respectively.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.2(2)	Site-specific information of the LWMS, e.g., radioactive release points, effluent temperature, shape of flow orifices, etc., is provided in the COLA.	-	No change	-	Editorial and errata revision	A	3a

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COL 11.2(3)	The COL applicant is responsible for providing site-specific hydrogeological data (such as contaminant migration time), and analysis to demonstrate that the potential groundwater contamination resulting from radioactive release due to liquid containing tank failure is bounded by the analysis discussed in Subsection 11.2.3.2.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.2(4)	The COL applicant is to calculate doses to members of the public following the guidance of RG 1.109 (Ref 11.2-15) and RG 1.113 using site-specific parameters, and compares the doses due to the liquid effluents with the numerical design objectives of Appendix I to 10 CFR 50 (Ref 11.2-10) and compliance with requirements of 10 CFR 20.1302, 40 CFR 190.	-	No change	-	Editorial and errata revision	A	3a
COL 11.2(5)	The COL applicant is to perform a site-specific cost benefit analysis to demonstrate compliance with the regulatory requirements.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.2(6)	The COL applicant is to provide piping and instrumentation diagrams (P&IDs).	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.3(1)	Deleted				No Change from FSAR Rev.0	A	3a
COL 11.3(2)	Deleted				No Change from FSAR Rev.0	A	3a
COL 11.3(3)	The COL applicant is to provide a discussion of the onsite vent stack design parameters and release point specific characteristics.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.3(4)	Deleted				No Change from FSAR Rev.0	A	3a
COL 11.3(6)	The COL applicant is to calculate doses to members of the public following the guidance of RG 1.109(Ref. 11.3-19) and RG 1.111(Ref. 11.3-22), and compare the doses due to the gaseous effluents with the numerical design objectives of 10 CFR 50, Appendix I (Ref. 11.3-3) and compliance with requirements of 10 CFR 20.1302(Ref. 11.3-24), 40 CFR 190(Ref. 11.3-25).	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.3(7)	Deleted					A	3a
COL 11.3(8)	The COL applicant is to perform a site-specific cost benefit analysis to demonstrate compliance with the regulatory requirements.	-	No change	-	No Change from FSAR Rev.0	A	3a

1. Status of Original COL Applicant Items

PRELIMINARY

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COL 11.3(9)	The COL applicant is to provide piping and instrumentation diagrams (P&IDs).	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.4(1)	The current design meets the waste storage requirements in accordance with ANSI/ANS-55.1. When the COL applicant desires additional storage capability beyond that which is discussed in this Tier 2 document, the COL applicant will identify plant-specificneeds for on-site waste storage and provide a discussion of on-site storage of low-level waste.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.4(2)	Deleted						
COL 11.4(5)	The current design provides collection and packaging of dry active wastes for offsite shipment and/or disposal. Depending on site-specific requirements, the COL applicant can send the wastes for offsite laundry facility processing and/or bring in a mobil compaction unit for volume reduction. The temporary mobile compaction subsystem is a COL item.	-	The current design provides collection and packaging ~~of~~dry active wastes potentially contaminated clothingfor offsite shipment and/or disposal. Depending on site-specific requirements, the COL applicant can send the wastes ~~for~~ to an offsite laundry facility processing and/or bring in a mobile compaction unit for volume reduction. Thelaundry services, including contracted services and/or a temporary mobile compaction subsystem, are ~~is a~~ COL items.	MHI letter UAP-HF-09091	No Change from FSAR Rev.0	A	3a
COL 11.4(6)	The COL applicant is required to perform a site-specific cost benefit analysis to demonstrate compliance with the regulatory requirements.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.4(7)	The COL applicant can adopt solid waste processing facility (e.g. de-watering system, compactor for reducing waste volume) depending on site-specific requirements. These facilities are COL item.	-	~~The COL applicant can adopt~~The SWMS design does no include solid waste processing facility (e.g. de-watering system, compactor for reducing waste volume) ~~depending on site-specific requirements. These facilities are COL item~~, but provides the flexibility for the site-specific utilities to add compaction equipment or to adopt contract services from specialized facilities. This is the responsibility of the COL applicant.	MHI letter UAP-HF-09090 MHI letter UAP-HF-09091	No Change from FSAR Rev.0	A	3a
COL 11.4(8)	The COL applicant is to provide piping and instrumentation diagrams (P&IDs).	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.5 (1)	The COL applicant is responsible for the additional site-specific aspects of the process and effluent monitoring and sampling system beyond the standard design, in accordance with RGs 1.21, 1.33 and 4.15 (Ref. 11.5-12, 11.5-17, 11.5-14). Furthermore, the COL applicant is responsible for assuring the fulfillment of the guidelines issued in 10 CFR 50, Appendix I (Ref. 11.5-3) regarding the offsite doses released through gaseous and liquid effluent streams.	-	No change	-	No Change from FSAR Rev.0	A	3a

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PRELIMINARY

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						"A" or "H"	Reason
COL 11.5(4)	The COL applicant is to develop procedures which are of inspection, decontamination, and replacement related to radiation monitoring instruments.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 11.5(6)	The COL applicant is to perform a site-specific cost benefit analysis to demonstrate compliance with the regulatory requirements.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 12.1(1)	The COL Applicant is to demonstrate that the policy considerations regarding plant operations are compliance with RG 1.8, 8.8 and 8.10 (Subsection 12.1.1.3).	-	No change	-	No Change from FSAR Rev.1	A	3a
COL 12.1(2)	Deleted.						
COL 12.1(3)	The COL Applicant is to describe how the plant follows the guidance of RG 8.2, 8.4, 8.6, 8.7, 8.9, 8.13, 8.15, 8.20, 8.25, 8.26, 8.27, 8.28, 8.29, 8.32, 8.34, 8.35, 8.36 and 8.38.	-	The COL Applicant is to describe how the plant follows the guidance of RG 8.2, 8.4, 8.6, 8.7, 8.9, 8.13, 8.15~~, 8.20~~, 8.25~~, 8.26~~, 8.27, 8.28, 8.29~~, 8.32~~, 8.34, 8.35, 8.36 and 8.38.	MHI letter UAP-HF-08273	Change based on DCD RAI responses. (FSAR UTR Rev.0 Transmittal Number:TXNB-09005, and FSAR UTR Rev.3)	A	3a
COL 12.1(4)	Deleted.						
COL 12.1(6)	-	-	The COL applicant is to perform periodic review of operational practices to ensure configuration management, personnel training and qualification update, and procedure adherence.	MHI letter UAP-HF-09003	Change based on DCD RAI responses. (FSAR UTR Rev.3)	A	3a
COL 12.1(7)	-	-	The COL applicant is to track implementation of requirements for record retention according to 10CFR 50.75(g) and 10 CFR 70.25(g) as applicable.	MHI letter UAP-HF-09003	Change based on DCD RAI responses. (FSAR UTR Rev.3)	A	3a

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PRELIMINARY

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						"A" or "H"	Reason
COL 12.2(2)	The COL Applicant is to provide the detailed design of additional storage space for radwaste and/or additional radwaste facilities for dry active waste.	-	The COL Applicant is to ~~provide the detailed design of~~ address the radiation protection aspects associated with additional storage space for radwaste and/or additional radwaste facilities for dry active waste.	-	TBD	A	3a
COL 12.3(1)	The COL Applicant is responsible for the use of portable instruments, and the associated training and procedures, to accurately determine the airborne iodine concentration in areas within the facility where plant personnel may be present during an accident, in accordance with the requirements of 10 CFR 50.34(f)(2)(xxvii) and the criteria in Item III.D.3.3 of NUREG-0737.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 12.3(2)	Deleted.						
COL 12.3(3)	Deleted.						
COL 12.3(4)	The COL Applicant is to provide the site radiation zones that is shown on the site-specific plant arrangement plan.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 12.3(5)	The COL Applicant is to discuss the administrative control of the fuel transfer tube inspection and the access control of the area near the seismic gap below the fuel transfer tube.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 12.4(1)	For multiunit plants, the COL Applicant is to provide estimated annual doses to construction workers in a new unit construction area, as a result of radiation from onsite radiation sources from the existing operating plant(s).	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.1(1)	The COL Applicant is to provide a description of the corporate or home office organization, its functions and responsibilities, and the number and qualifications of personnel. The COL Applicant directs attention to activities that include facility design, design review, design approval, construction management, testing, and operation of the plant.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 13.1(2)	The COL Applicant is to develop a description of past experience in the design, construction, and operation of nuclear power plants and past experience in activities of similar scope and complexity.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.1(3)	The COL Applicant is to describe its management, engineering, and technical support organizations. The description includes organizational charts for the current headquarters and engineering structure and any planned modifications and additions to those organizations that reflect the added functional responsibilities with the nuclear power plant.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.1(4)	The COL Applicant is to develop a description of the organizational arrangement is designated as the responsibility of the COL Applicant. This description shows how the added functional responsibilities associated with the addition of the nuclear power plant to the Applicant's power generation capacity are delegated and assigned (or expected to be assigned to each of the working or performance-level organizational units to *implement these responsibilities*). The description includes organizational charts reflecting the current corporate structure and the specific working- or performance-level organizational units that provide technical support for the operation.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.1(5)	The COL Applicant is to develop the description of the general qualification requirements in terms of educational background and experience for positions or classes of positions depicted in the organizational arrangement.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.1(6)	The COL Applicant is to develop the organizational structure for the plant organization, its personnel responsibilities and authorities, and operating shift crews.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.1(7)	The COL Applicant is to develop the description of education, training, and experience requirements established for management, operating, technical, and maintenance positions for the operating organization.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.2(1)	The COL Applicant is to develop the training program description.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 13.2(2)	The COL Applicant is to develop training programs for reactor operators in accordance with NUREG-0800, Section 13.2.1.I.3 (Ref. 13.2-4).	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.2(3)	The COL Applicant is to develop training programs for non-licensed plant staff In accordance with NUREG-0800, Section 13.2.2.I.3 (Ref. 13.2-4).	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.2(4)	The COL Applicant is to develop training programs. These programs include a chart, which shows the schedule of each part of the training program for each functional group of employees in the organization in relation to the schedule for preoperational testing, expected fuel loading, and expected time for examinations prior to plant criticality for licensed operators.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.2(5)	The COL Applicant is to determine the extent to which portions of applicable NRC guidance is used in the facility training program or the justification of exceptions.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.3(1)	The COL Applicant is to develop interfaces of design features with site specific designs and site parameters.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.3(2)	The COL Applicant is to develop a comprehensive emergency plan as a physically separate document.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.3(3)	The COL Applicant is to develop an emergency classification and action level scheme.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.3(4)	The COL Applicant is to develop the security-related aspects of emergency planning.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.3(5)	The COL Applicant is to develop a multi-unit site interface plan depending on the location of the new reactor on, or near, an operating reactor site *with an existing emergency plan.*	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.3(6)	The COL Applicant is to develop an emergency planning inspections, tests, analyses, and acceptance criteria.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.3(7)	The COL Applicant is to develop the description of the operation support center.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.5(2)	Deleted						

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COL 13.5(4)	The COL Applicant is to describe the different classifications of procedures the operators will use in the main control room and locally in the plant for operations, the operating organization responsible for maintaining the procedures, and the general format and content of the different classifications.	-	No change	-	Editorial Change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 13.5(5)	The COL Applicant is to describe the program for developing operating procedures.	-	No change	-	Editorial Change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 13.5(6)	The COL Applicant is to describe the program for developing and implementing emergency operating procedures.	-	No change	-	Editorial Change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 13.5(7)	The COL Applicant is to describe the classifications of maintenance and other operating procedures, the operating organization group or groups responsible for following each class of procedure, and the general objectives and character of each class and subclass.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.6(1)	The COL Applicant is to develop and provide plant overall security plan and implementation schedule for the security programs.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 13.7(1)	The COL Applicant is to develop the description of the operating and construction plant fitness-for-duty programs.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 14.2(1)	The COL applicant is responsible for describing the program for the testing of other components and systems that are site-specific. Testing of these items demonstrates that they meet requirements as defined in the Final Safety Analysis Report (FSAR). [14.2.1]	-	Delete	MHI letter UAP-HF-08199			
COL 14.2(2)	The COL applicant provides a description of the organization(s) responsible for all phases of the ITP, and provide a description of the administrative controls that assure that experienced and qualified supervisory personnel and other principal participants are responsible for managing, developing, and conducting the ITP. [14.2.2]	-	~~The COL applicant provides a description of the organization(s) responsible for all phases of the ITP, and provide a description of the administrative controls that assure that experienced and qualified supervisory personnel and other principal participants are responsible for managing, developing, and conducting the ITP. [14.2.2]~~ The COL Applicant reconciles the site-specific organization, organizational titles, organizational responsibilities, and reporting relationships to be consistent with US-APWR Test Program Description Technical Report, MUAP-08009 (Reference 14.2-29) [14.2.2].	MHI letter UAP-HF-08199	Editorial Change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a

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COL 14.2(4)	The COL applicant develops a description of the administrative controls that govern the conduct of test program. These controls include requirements that govern the activities of the startup organization and their interface with other organizations. [14.2.4]	-	Delete	MHI letter UAP-HF-08199			
COL 14.2(5)	The COL applicant develops a description of the specific controls for the review, evaluation, and approval of test results of the program by appropriate personnel and/or organizations, including the methods and schedules for *approval of test data for each major phase.* [14.2.5]	-	Delete	MHI letter UAP-HF-08199			
COL 14.2(6)	The COL applicant develops a description of the specific controls for the preparation and retention of test records. [14.2.6]	-	Delete	MHI letter UAP-HF-08199			
COL 14.2(9)	The COL applicant identifies and cross-references each test or portion of a test required to be completed prior to fuel load which satisfies ITAAC requirements. [14.2.11]	-	Combined with COL 14.2(7)	MHI letter UAP-HF-09133			
COL 14.2(10)	The COL applicant is responsible for the testing outside scope of the certified design in accordance with the test criteria described in subsection 14.2.1. And testing of the following is required. [14.2.12] ·Personnel monitors and radiation survey instruments	-	The COL applicant is responsible for the testing outside scope of the certified design in accordance with the test criteria described in subsection 14.2.1~~.~~ ~~And testing of the following is required.~~[14.2.12] ~~·Personnel monitors and radiation survey instruments~~	MHI letter UAP-HF-08265	This COL item is addressed in Subsections 14.2.12.1.90.C.8, 14.2.12.1.112, 14.2.12.1.113, and 14.2.12.1.114, Table 14.2-201, and Appendix 14A.	A	3a
COL 14.2(11)	-	-	The COL holder for the first plant is to perform the first plant only test and prototype test. For subsequent plants, either these tests are performed, or the COL applicant provides a justification that the results of the first-plant only tests are applicable to the subsequent plant and are not required to be repeated. [14.2.8]	MHI letter UAP-HF-09092	Subsection 14.2.8 First-plant-only and prototype tests either are performed in accordance with Section 14.2.8 or a justification is provided prior to initial fuel loading that the results of the first plant-only test and prototype test are applicable to a subsequent plant and are not required to be repeated. Subsection 14.2.8.1 Natural circulation test is performed in accordance with Subsection 14.2.12.2.3.9 or a justification is provided based on the Subsection 14.2.8.2.1 prior to initial fuel loading that the results of the US-APWR prototype test are applicable to a subsequent plant and are not required to be repeated.	A	3a
COL 14.2(12)	-	-	The COL holder makes available approved test procedures for satisfying testing requirements described in Section 14.2 to the NRC approximately 60 days prior to their intended use. [14.2.3, 14.2.11, 14.2.12.1]	MHI letter UAP-HF-09133	Subsection 14.2.3 Approved test procedures for satisfying testing requirements of Section 14.2 are made available to the NRC approximately 60 days prior to their intended use.	A	3a

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COL 14.3(1)	The COL applicant provides the ITAAC for the site specific portion of the plant systems specified in Subsection 14.3.5, Interface Requirements. [14.3.4.7]	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 14.3(2)	The COL applicant provides proposed ITAAC for the facility's emergency planning not addressed in the DCD in accordance with RG 1.206 (Reference 14.3-1) as appropriate. [14.3.4.10]	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 14.3(3)	Deleted					A	3a
COL 15.0(1)	In the COLA, if the site-specific χ/Q values exceed DCD χ/Q values, then the COL Applicant is to demonstrate how the dose reference values in 10 CFR 50.34 and the control room dose limits in 10 CFR 50, Appendix A, General Design Criteria 19 are met for affected events using site-specific □/Q values.	-	In the COLA, if the site-specific χ/Q values exceed DCD χ/Q values, then the COL Applicant is to demonstrate how the dose reference values in 10 CFR 50.34 and 10 CFR 52.79 and the control room dose limits in 10 CFR 50, Appendix A, General Design Criterion ~~Criteria~~ 19 are met for affected events using site-specific χ/Q values. Additionally, the Technical Support Center (TSC) dose should be evaluated against the habitability requirements in Paragraph IV.E.8 to 10 CFR Part 50, Appendix E, and 10 CFR 50.47(b)(8) and (b)(11).	MHI letter UAP-HF-09001	No Change from FSAR Rev.1	A	3a
COL 16.1(1)	Adoption of RMTS is to be confirmed and the relevant descriptions are to be fixed.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1(2)	Adoption of SFCP is to be confirmed and the relevant descriptions are to be fixed.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_3.4.17(1)	The site specific information for tube repair is to be provided.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_3.7.9(1)	LCO 3.7.9 and associated Bases for the Ultimate Heat Sink based on plant specific design are to be developed.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_3.7.10(1)	LCO 3.7.10 and associated Bases for hazardous chemical are to be confirmed by the evaluation with site-specific condition.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_3.8.4(1)	The battery float current values in required action A.2 is to be confirmed after selection of the plant batteries.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_3.8.5(1)	The battery float current values in required action A.2 is to be confirmed after selection of the plant batteries.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 16.1_3.8.6(1)	The battery float current values in condition B, required action B.2, and SR 3.8.6.1 are to be confirmed after selection of the plant batteries.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_4.1(1)	The site specific information for site location is to be provided.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_4.3.1(1)	The site specific boron concentration is to be provided.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.1.1(1)	The titles for members of the unit staff are to be specified .	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.1.2(1)	The titles for members of the unit staff are to be specified .	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.2.1(1)	The titles for members of the unit staff are to be specified.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.2.2(1)	The titles and number for members of the unit staff are to be specified.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.3.1(1)	Minimum qualification for unit staff is to be specified.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.5.1(1)	The titles for members of the unit staff that approve the Offsite Dose Calculation Manual are to be specified.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.5.9(1)	The site specific information for tube repair is to be provided.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.5.20( )	Control Room Envelope Habitability Program for hazardous chemical are to be confirmed by the evaluation with site-specific condition.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.6.1(1)	In case of multiple unit site, the additional information for submittal of report is to be added.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.6.1(2)	The format of the Annual Radiological Environmental Operating Report is to be specified based on "the format of the table in the Radiological Assessment Branch Technical Position, Revision 1, November 1979" or another format.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.6.2(1)	In case of multiple unit site, the additional information for submittal of report is to be added.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 16.1_5.6.7(1)	The site specific information for tube repair is to be provided.	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 16.1_5.7(1)	The site specific information about High Radiation Area is to be provided.	-	No change	-	No Change from FSAR Rev.0	A	3a
COL 17.5(1)	The COL applicant shall develop and implement a Quality Assurance Program Description for site-specific design activities and for plant construction and operation.	-	No change	-	Editorial change (FSAR UTR Rev.0 Transmittal Number:TXNB-09005)	A	3a
COL 17.6(1)	The COL applicant develops and implements the program for implementation of 10 CFR 50.65, the Maintenance Rule.	-	The COL applicant must provide in its FSAR a description of ~~develops and implements~~ the maintenance rule program , and its ~~for~~ implementation , for monitoring the effectiveness of maintenance necessary to meet the requirements of 10 CFR 50.65, ~~the Maintenance Rule~~.	MHI letter UAP-HF-09019	TBD	A	3a
COL 18.1(1)	Deleted						
COL 18.1(2)	Deleted						
COL 18.3(1)	Deleted						
COL 18.3(2)	Deleted						
COL 18.4(1)	Deleted						
COL 18.4(2)	Deleted						
COL 18.4(3)	Deleted						
COL 18.5(1)	Deleted						
COL 18.5(2)	Deleted						
COL 18.6(1)	Deleted						
COL 18.6(2)	Deleted						
COL 18.7(1)	Deleted						
COL 18.8(1)	Deleted						
COL 18.9(1)	Deleted						
COL 18.10(1)	Deleted						

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COL 18.10(2)	Deleted						
COL 18.11(1)	Deleted						
COL 18.11(2)	Deleted						
COL 18.12(1)	Deleted						
COL 19.3(2)	(Deleted)						
COL 19.3(3)	To provide PRA input to the reactor oversight process is a responsibility of the COL Applicant.	-	Delete	This COL information will be incorporated in DCD.			
COL 19.3(4)	The Probabilistic Risk Assessment and Severe Accident Evaluation is updated as necessary to assess specific site information and associated site-specific external events (high winds and tornadoes, external floods, transportation, and nearby facility accidents).	-	No change	-	No Change from FSAR Rev.0	A	3a

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COL 1.4(1)	The COL Applicant is to identify major agents, contractors, and participants for the COL application development, construction, and operation.	No Change	No Change	-	No construction contractors have been identified in this section because an architect engineer, balance of plant supplier and constructor have not been selected at this time. Each contractor will be selected based on the experience in the nuclear industry or equivalent, the relevant experience with engineering, procurement and construction, and the available resources. The identification and technical qualification of the primary contractor for construction will be made available in the FSAR update process prior to ~~commencement of construction~~ the issuance of COL.	A	4
COL 3.5(1)	The COL Applicant is to prepare plant procedures that specify equipment required for maintenance or undergoing maintenance is to be removed from containment prior to operation, moved to a location where it is not a potential hazard to SSCs important to safety, or seismically restrained to prevent it from becoming a missile.	No Change	No Change	-	No Change from FSAR Rev.0 CPNPP Unit 3 and 4 procedures will be issued prior to fuel load in accordance with Subsection 13.5.2.2 to require equipment for maintenance or undergoing maintenance to be removed from containment prior to operation, moved to a location where it is not a potential hazard to SSCs important to safety, or seismically restrained to prevent it from becoming a missile.	A	2
COL 3.5(2)	The COL Applicant is to commit to actions to maintain P1 within this acceptable limit as provided by turbine and rotor design features, material specifications and recommended inspections during preservice and inservice periods.	No Change	The COL Applicant is to commit to action to maintain P1 within this acceptable limit as provided by turbine and rotor design features, material specifications and recommended inspections during preservice and inservice periods based on Technical Report, MUAP-07028~~070028~~-NP, Probability of Missile Generation From Low Pressure Turbines and Technical Report, MUAP-07029-NP, Probabilistic Evaluation of Turbine Valve Test Frequency.	MHI letter UAP-HF-09254	No Change from FSAR Rev.0 Mathematically, P4 = P1 x P2 x P3, where RG 1.115 (Reference 3.5-6) considers an acceptable risk rate for P4 as less than 10-7 per year. For unfavorably oriented T/Gs determined in Subsection 3.5.1.3, the product of P2 and P3 is estimated as 10-2 per year, which is a more conservative estimate than for a favorably oriented single unit. CPNPP Unit 3 and 4 procedures will be implemented 6 months prior to delivery of the T/G to require inspection intervals established in Technical Report, MUAP- 07028-NP, Probability of Missile Generation From Low Pressure Turbines (Reference 3.5-17) and other actions to maintain P1 within acceptable limits as outlined in NUREG-0800, Standard Review Plan (SRP) 3.5.1.3, Table 3.5.1.3-1 (Reference 3.5-7). These inspection intervals maintain the probability of turbine failure sulting in the ejection of turbine rotor (or internal structure) fragments through the turbine casing, P1, as less than 10-5 per year. The acceptable risk rate P4 = P1 x P2 x P3 is therefore maintained as less than 10-7 per year.	A	2

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COL 3.6(1)	The COL Applicant is to identify the site-specific systems or components that are safety-related or required for safe shutdown that are located near high-energy or moderate-energy piping systems, and are susceptible to the consequences of these piping failures. The COL Applicant is to provide a list of site-specific high-energy and moderate-energy piping systems, which includes a description of the layout of all piping systems where physical arrangement of the piping systems provides the required protection, the design basis of structures and compartments used to protect nearby essential systems or components, or the arrangements to ensure the operability of safety-related features where neither separation nor protective enclosures are practical. Additionally, the COL Applicant is to provide the failure modes and effect analyses that verifies the consequences of failures in site-specific high-energy and moderate-energy piping does not affect the ability to safely shut down the plant.	No Change	No Change	-	The site specific systems or components that are safety related or required for safety shutdown are the essentisl service water system(ESWS) and the ultimate heat sink system(UHS). There is no site-specific high-energy pipingin CPNPP Units 3 and 4. ~~A site-specific pipe break evaluation report will be completed prior to the installation and fabrication of site- pecific piping systems or installation of connected components and equipment.~~ ~~..... Additionally, the evaluation report provides the failure modes and effect analyses that verifies the consequences of failures in site-specific moderate-energy -iping does not affect the ability to safely shut down the plant~~ The site-specific moderate-energy piping systems in CPNPP Units 3 and 4 are the ESWS and the fire protection water supply system(FSS). The failure mode and effect analyses performed for the moderate-energy piping systems are the assessment for environmental impact and flooding impact. The ESWS and the UHS consist of four independent divisions with each devision providing fifty percent(50%) of cooling capacity require The failure in the piping of one ESWS division does not affect the oth The failure in the FSS piping does not affect the safety function of the	A	3a
COL 3.6(4)	The COL Applicant is to implement the criteria of the following subsections for defining break and crack locations and configurations, and the locations and configurations of design basis pipe break and crack locations and configurations for site-specific high-energy and moderate-energy piping systems. The COL Applicant is to identify the postulated rupture orientation of each postulated break location for site-specific high-energy and moderate-energy piping systems. The COL Applicant is to implement the appropriate methods to assure that as-built configuration of site-specific high-energy and moderate-energy piping systems is consistent with the design intent and provide as-built drawings showing component locations and support locations and types that confirms this consistency.	No Change	The COL Applicant is to implement the criteria~~of the following subsections~~ for defining break and crack locations and configurations~~, and the locations and configurations of design basis pipe break and crack locations and configurations~~for site-specific high-energy and moderate-energy piping systems. The COL Applicant is to identify the postulated rupture orientation of each postulated break location for site-specific high-energy and moderate-energy piping systems. The COL Applicant is to implement the appropriate methods to assure that as-built configuration of site-specific high-energy and moderate-energy piping systems is consistent with the design intent and provide as-built drawings showing component locations and support locations and types that confirms this consistency.	Clarification of COL Applicant's action	There is no site-specific high-energy pipingin CPNPP Units 3 and 4. ~~The criteria also apply for defining pipe break and crack locations and configurations, and the locations and configurations of design basis pipe breaks and cracks, for site-specific moderateenergy piping systems. The postulated rupture orientation of each postulated break location is identified for the site-specific moderate-energy piping systems.~~ ~~The as-built configuration of site-specific moderate-energy lines will also be evaluated to this criterion. As-built inspections will be completed, prior to system turnover for testing and operation, to verify that the installed piping, support locations, types, component locations are consistent with the design intent, and as-built drawings are produced showing component locations and support locations and types that confirm this consistency.~~ The site-specific moderate energy piping systems in CPNPP Units 3 and 4 are the ESWS and the FSS. The failure in the ESWS and FSS piping does not affect safety function of the ESWS and the UHS taht are required for designbasis a	A	3a

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COL 3.6(6)	The COL Applicant is to discuss the implementation of criteria dealing with special features, if any.	No Change	Deleted	There is no need to install special features other than pipe whip restraints, barriers and shield in site-specific piping. DCD section 3.6.2.5 will be revised as follows because special features such as pipe whip restraints, barriers, and shields are alredy described in DCD subsection 3.6.2.4.4. "Special features such as pipe whip restraints, barriers, and shields are discussed in Subsection 3.6.2.4.4."	Delete ~~The criteria dealing with special features will be implemented prior to fabrication and installation of piping and components. Special features include an augmented inservice inspection (ISI) program or use of special protective devices such as pipe whip restraints, including diagrams showing their final configurations, locations, and orientations in relation to break locations.~~		
COL 3.7(9)	The COL Applicant is to assure that the design or location of any site-specific seismic category I SSCs, for example buried yard piping or duct banks, will not expose those SSCs to possible impact due to the failure or collapse of non-seismic category I structures, or with any other SSCs that could potentially impact, such as heavy haul route loads, transmission towers, non safety-related storage tanks, etc.	No Change	The COL Applicant is to assure that the design or location of any site-specific seismic category I SSCs, for example ~~buried yard piping~~ pipe tunnels or duct banks, will not expose those SSCs to possible impact due to the failure or collapse of non-seismic category I structures, or with any other SSCs that could potentially impact, such as heavy haul route loads, transmission towers, non-safety-related storage tanks, etc.	MHI Letter UAP-HF-09184	~~There are no installations of site-specific seismic category I SSCs (e.g., buried yard piping or duct banks) that could be impacted by a potential collapse or failure of the non-seismic category I structures. Final locations of safety-related SSCs in the plant yard adjacent to the AC/B, including those which may be field routed, will be reviewed prior to first fuel load to assure that distances away from the AC/B and/or burial depths are sufficient to prevent potential failure effects that could jeopardize their function and integrity.~~ The site specific Category I SSCs are the Ultimate Heat Sink Related Structure(UHSRS), the Essential Service Water Pipe Tunnel(ESWPT), and the Power Source Fuel Storage Vault(PSFSV). The layout design of the site specific seismic Category I SSCs ensures that there are no adjacent non-seismic Category I structures which may adversly affect these structures to protect them from structural failure of non-seismic Category I structures.	A	3a
COL 3.7(11)	It is the responsibility of the COL Applicant to confirm the masses and frequencies of the PCCV polar crane and fuel handling crane and to determine if coupled site-specific analyses are required.	No Change	Deleted	Mass and frequency of the polar crane and fuel handling crane which not need the coupled analysis will be incorporated as standard design in DCD.	Deleted ~~The polar crane and fuel handling crane manufacturers are selected and a sitespecific design of these cranes will be performed prior to construction. The sitespecific seismic analysis and design of the cranes consider their masses and frequencies, and are coupled with the building analyses as required by ASME NOG-1 (Reference 3.7-22) or SRP 3.7.2 (Reference 3.7-16).~~		

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COL 3.7(15)	The COL Applicant is to assure that a time-history analyzer/recorder is provided which has the capability to provide pre-event recording time of 3 seconds minimum and post-event recording time of 5 seconds minimum, and to record at least 25 minutes of sensed motion.	Deleted					
COL 3.7(18)	It is the responsibility of the COL Applicant to develop a site-specific instrument surveillance program including calibration and testing that complements the US-APWR seismic instrumentation program, and to develop site-specific maintenance and repair procedures that maximize the number of instruments in service during plant operation and shutdown.	Deleted					
COL 3.7(19)	It is the responsibility of the COL Applicant to provide the site-specific details of the seismic instrumentation implementation plan based on the discussion in Subsections 3.7.4.1 through 3.7.4.5.	No Change	~~It is the responsibility of the COL Applicant to provide the site-specific details of the seismic instrumentation implementation plan based on the discussion in Subsections 3.7.4.1 through 3.7.4.5.~~ The COL Applicant is to identify the implementation milestone for the seismic instrumentation program based on the discussion in Subsections 3.7.4.1 through 3.7.4.5.	Clarification of COL Applicant's action	The seismic instrumentation program ~~implementation plan~~ for CPNPP Units 3 and 4 will be established at least 12 months prior to first fuel load.	A	1b
COL 3.8(1)	It is the responsibility of the COL Applicant to perform reconciliation evaluations when the as built properties become available.	Deleted					
COL 3.8(2)	It is the responsibility of the COL Applicant to assure that wobble and curvature coefficients used in computing prestressing losses due to friction are consistent with the tendon system corrosion protection coatings present at the time of prestressing.	Deleted					
COL 3.8(4)	It is the responsibility of the COL Applicant to select the site-specific concrete ingredients and to develop a concrete mix design that produces the concrete design strengths specified for the US-APWR PCCV and conform to all applicable material and quality control requirements.	Deleted					
COL 3.8(5)	It is the responsibility of the COL Applicant to verify these concrete creep and shrinkage parameters by testing of the site-specific concrete mix, and the PCCV design analysis is revised if the final test results affect the conclusions of the PCCV calculation.	Deleted					

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COL 3.8(6)	It is the responsibility of the COL Applicant to develop a site-specific specification that covers the concrete production and batch plant requirements.	Deleted					
COL 3.8(8)	It is the responsibility of the COL Applicant to produce a site-specific liner plate specification to define the material and welding requirements, testing, and quality requirements.	Deleted					
COL 3.8(9)	The COL Applicant is to produce another site-specific specification for the PCCV personnel airlocks and equipment hatch.	Deleted					
COL 3.8(12)	It is the responsibility of the COL Applicant to produce a site-specific specification that covers the material requirements for the Prestressing System.	Deleted					
COL 3.8(13)	It is the responsibility of the COL Applicant to produce a site-specific specification to define the material and special material testing requirements for the reinforcing steel system including bars and splices, and all material is to conform to Article CC-2300 of the ASME Code, Section III.	Deleted					
COL 3.8(14)	It is the responsibility of the COL Applicant to establish a site-specific program for testing and ISI of the PCCV, including periodic inservice surveillance and inspection of the PCCV liner and prestressing tendons in accordance with ASME Code Section XI, Subsection IWL	No Change	It is the responsibility of the COL Applicant to establish~~a site-specific program~~ programs for testing and ISI of the PCCV, including periodic inservice surveillance and inspection of the PCCV liner and prestressing tendons in accordance with ASME Code Section XI, Subsection IWL	Clarification of COL Applicant's action	~~A site-specific~~ preservice inspection (PSI) program for the PCCV will be completed at least 12 months prior to initial fuel load. ISI are performed during the initial and subsequent 10 year intervals as identified in Subsections IWE and IWL Article 2000, Examination Program B. The PCCV PSI and ISI programs include preservice examination, testing and ISI requirements, and also address personnel qualification requirements and responsibilities. The PCCV ISI program also provides detailed inspection plans and surveillance schedules consistent with those of the integrated leak rate test (ILRT) program, which is discussed further below and in Subsection 6.2.6. ASME Code Section XI requirements incorporated by reference in 10 *CFR 50.55a on the date 12 months prior to issuance of the operating* cense, and optional ASME code cases endorsed by the NRC via RG 1.147, establish the requirements for the initial 120-month ISI program interval. ISI conducted during successive 120 month intervals complies with the requirements incorporated by reference (in 10 CFR 50.55a) 12 months before the start of the 120-month insp	A	1a

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COL 3.8(22)	The COL Applicant is to address monitoring of seismic category I structures in accordance with the requirements of NUMARC 93-01 (Reference 3.8-28) and 10 CFR 50.65 (Reference 3.8-29) as detailed in RG 1.160 (Reference 3.8-30).	Revised	The COL Applicant is ~~to address monitoring~~to establish a site-specific program for monitoring and maintenanceof seismic category I structures in accordance with the requirements of NUMARC 93-01 (Reference 3.8-28) and 10 CFR 50.65 (Reference 3.8-29) as detailed in RG 1.160 (Reference 3.8-30).	Clarification of COL Applicant's action	No change from FSAR Rev.0 Monitoring of seismic category I structures is required to be performed in accordance with the requirements of NUMARC 93-01 (Reference 3.8-28) and 10 CFR 50.65 (Reference 3.8-29) as detailed in RG 1.160 (Reference 3.8-30). Prior to completion of construction, site-specific programs are developed in accordance with RG 1.127 (Reference 3.8-47) for ISI of seismic category I water control structures, including the UHSRS and any associated safety and performance instrumentation. The site-specific programs address in particular ISI of critical areas to assure plant safety through appropriate levels of monitoring and maintenance. Any special design provisions (such as providing sufficient physical access or providing alternative means for identification of conditions in inaccessible areas that can lead to degradation) to accommodate ISI are also required to be addressed in the ISI program.	A	1b
COL 3.9(2)	The first COL Applicant, at the time of application, is to provide results of the vibration assessment program including consistent with guidance of RG 1.20. Subsequent COL Applicant need only provide information in accordance with the applicable portion of position C.3 of RG 1.20 for Non-Prototype internals.	No Change	The first COL Applicant ~~at the time of application, is to provide results of the vibration assessment program including~~ is to complete the vibration assessment program including the vibration test results, consistent with guidance of RG 1.20. Subsequent COL Applicant need only provide information in accordance with the applicable portion of position C.3 of RG 1.20 for Non-Prototype internals.	Clarification of COL Applicant's action	No Change from FSAR Rev.0 The CPNPP Unit 3 reactor internals are classified as a prototype in accordance with RG 1.20 (Reference 3.9-21). Upon qualification of the CPNPP Unit 3 as a valid prototype, the CPNPP Unit 4 reactor internals will be classified as nonprototype category I based on the designation of RG 1.20 (Reference 3.9-21). Following the recommendation of RG 1.20 (Reference 3.9-21), a pre-operational vibration measurement program is developed for the CPNPP Unit 3 as the first operational US-APWR reactor internals. Data will be acquired only during the hot functional test, before core loading. This is in accordance with RG 1.20. Analysis (Subsection 3.9.2.3) shows that the responses under normal operating conditions with fuel assemblies in the core are almost the same or slightly smaller than those under hot functional test conditions without the core. The final report of the results of the vibration assessment program is submitted to the NRC within 80 days following completion of vibration testing. Subsequent to the completion of the vibration assessment program fo	A	2

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COL 3.9(6)	The COL Applicant is to provide the program plan for IST of dynamic restraints in accordance with ASME OM Code.	Revised	The COL Applicant is to provide the program plan for IST of dynamic restraints in accordance with Nonmandatory Appendix A of ASME OM Code.	Clarification of COL Applicant's action	The IST program plan for dynamic restraints (snubbers) complies with the requirements in the latest edition and addenda of ASME OM Code incorporated by reference in 10 CFR 50.55a (Reference 3.9-29). The IST program plan for dynamic restraints will be provided ~~described based on the IST program plan outlined~~ 12 months prior to fuel load.	A	1b
COL 3.9(7)	The COL Applicant is to provide alternate method of valve position indicator operation and justification for valves in the IST program plan.	No Change	Deleted	This COL information will be incorporated in DCD based on the response to RAI.	Deleted ~~Any alternate method for verification of valve position indicator operation, and its justification, is described in the IST program plan outlined 12 months prior to fuel load.~~		
COL 3.9(8)	*The COL Applicant is to administratively control* the edition and addenda to be used for the IST program plan for pumps, valves, and dynamic restraints.	No Change	The COL Applicant is to administratively control the edition and addenda to be used for the IST program plan, and to provide a full description of their IST program for pumps, ~~valves~~ valves, and dynamic restraints.	MHI Letter UAP-HF-09245	~~The edition and addenda used for the inservice testing (IST) program for pumps, valves, and dynamic restraints is administratively controlled as part of the operational program. The preservice test program is implemented as described in Section 13.4. The requirements of functional testing for pumps, valves, and dynamic restraints will be in accordance with the IST program plan outlined 12 months prior to fuel load.~~ The inservice testing(IST)program for pumps, valves, and dynamic restraints is administratively controlled to ensure that the equipment will be capable of performing its safety function throughout the life of the plant.	A	3a
COL 3.10(1)	The COL Applicant is to document and implement an equipment qualification program for seismic category I equipment and provide milestones and completion dates.	*No Change*	*No Change*	-	~~The plan for the documentation and implementation of the CPNPP Units 3 and 4 equipment seismic qualification program, including milestones and completion dates with appropriate information for review and approval prior to installation of equipment, will be established by December 2008.~~ The tests and analyses that demonstrate adequate seismic qualification for seismic category I equipment will be performed at the procurement stage. The equipment environmental qualification program including the results of these test and analysis will be provided prior to the fuel load, described in Table13.4-201.	A	1a

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COL 3.10(3)	The COL Applicant is to develop and maintain an equipment qualification file that contains a list of systems, equipment, and equipment support structures, as defined above, and summary data sheets referred to as an equipment qualification summary data sheet (EQSDS) of the seismic qualification for each piece of safety-related seismic category I equipment (i.e., each mechanical and electrical component of each system), which summarize the component's qualification.	No Change	The COL Applicant is to develop and maintain an equipment qualification file that contains a list of systems, equipment, and equipment support structures~~, as defined above~~, and summary data sheets referred to as an equipment qualification summary data sheet (EQSDS) of the seismic qualification for each piece of safety-related seismic category I equipment (i.e., each mechanical and electrical component of each system), which summarize the component's qualification.	Clarification of COL Applicant's action	As part of the equipment seismic qualification program, an equipment qualification file will be developed six months prior to procurement of equipment that contains a list of systems, equipment, and equipment supports~~, as defined above~~, and equipment qualification summary data sheets (EQSDSs) for the seismic qualification of each piece of safety-related seismic category I equipment. The data sheets will be populated during the procurement/start up testing phase.	A	1a
COL 3.10(5)	Components that have been previously tested to IEEE Std 344-1971 prior to submittal of the DCD are reevaluated to justify the appropriateness of the input motion and requalify the equipment, if necessary. The COL Applicant is to requalify the component using biaxial test input motion unless the applicant provides justification for using a single-axis test input motion.	No Change	No Change	-	Components that have been previously tested to IEEE Std 344-197 prior to submittal of the DCD will be reevaluated six months prior to procurement of equipment to justify the appropriateness of the input motion and requalify the ~~equipment~~ components using biaxial test input motion, except when a single-axis test input motion is justified. Results of reevaluation and requalification of the above described components will be incorporated in the equipment environmental qualification program.	A	1a
COL 3.10(10)	The COL Applicant is to establish an equipment seismic qualification program which addresses all requisite aspects of seismic and dynamic qualification of mechanical and electrical equipment.	Deleted					
COL 3.13(1)	The COL Applicant is to provide information on procedures for effective corrosion protection for the stud bolting following head removal and allow the ISI to be performed on the removed RV stud bolting.	Deleted					
COL 3.13(2)	The COL Applicant is to provide information on procedures for the final selection of lubricants, sealants, and cleaning fluids.	Deleted					
COL 3.13(4)	The COL Applicant is to address compliance with ISI requirements as summarized in Subsection 3.13.2.	No Change	No Change	-	No change from FSAR Rev.0 Compliance with the requirements of the ISI program relating to threaded fasteners, including any applicable PSI and IST, is implemented as part of the operational programs. The ISI program is baselined using PSI. A PSI program relating to threaded fasteners will be implemented after the start of construction and prior to initial plant startup to comply with the requirements of ASME Section XI (Reference 3.13-14). Additionally, in accordance with ASME Section XI, IWA- 1200, the PSI code requirements may be performed irrespective of location (such as at manufacturer) once the construction Code requirements have been met.	A	1b

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COL 4.4(1)	The Combined License applicant is to confirm whether the design limits of Min. DNBR described in Section 4.4 are valid based on the relevant plant-specific instrumentation *uncertainties, or the safety analysis limit of Min.* DNBR value covers the new design limits of Min. DNBR and other DNBR penalties such as rod bow penalty, transition core geometry and/or reserving more core operational flexibilities.	*No Change*	*Deleted*	The uncertainties have been defined and will be considered in "Set Point Methodology" Technical Report planned to be submitted in October 2009.	Deleted ~~The safety analysis limit of the minimum departure from nucleate boiling ratio (DNBR) is determined as 1.45 for both the channel types, accommodating the DNBR penalties incurred due to rod bows described in DCD Subsection 4.4.2.2.4 and transition core geometry, and/or reserving more core operational flexibilities.~~ ~~After the actual plant-specific instrumentations are selected, it is to be confirmed whether the design limits of Min. DNBR are valid based on the relevant plant-specific instrumentation uncertainties, or the safety analysis limit of Min. DNBR value covers the new design limits of Min. DNBR and other DNBR penalties such as rod bow penalty, transition core geometry and/or reserving more core operational flexibilities. This will be completed prior to fuel load.~~		
COL 5.2(2)	ASME Code Cases that are approved in Regulatory Guide 1.147; The COL applicant addresses Code Cases invoked in connection with the inservice inspection program that are in compliance with Regulatory Guide 1.147.	No Change	No Change	-	Comanche Peak Nuclear Power Plant (CPNPP) uses no Code Cases beyond those listed in the referenced DCD.~~The use of Code Cases including those listed in Regulatory Guide (RG) 1.147 is identified in the inservice inspection (ISI) program (Subsection 5.2.4 and Section 6.6). The use of Code Cases including those listed in RG 1.192 is identified in the inservice testing (IST) program (Subsection 3.9.6 and 5.2.4).~~ [Note] Code case associated with RG 1.147 will be incorporated into DCD revision due to RAI to DCD.	A	3a
COL 5.2(3)	ASME Code Cases that are approved in Regulatory Guide 1.192; The COL applicant addresses Code cases invoked in connection with the operation and maintenance that are in compliance with Regulatory Guide 1.192.	No Change	No Change	-	Comanche Peak Nuclear Power Plant (CPNPP) uses no Code Cases beyond those listed in the referenced DCD.~~The use of Code Cases including those listed in Regulatory Guide (RG) 1.147 is identified in the inservice inspection (ISI) program (Subsection 5.2.4 and Section 6.6). The use of Code Cases including those listed in RG 1.192 is identified in the inservice testing (IST) program (Subsection 3.9.6 and 5.2.4).~~ [Note] Code case associated with RG 1.192 will be incorporated into DCD revision due to RAI to DCD.	A	3a

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COL Item NO.	COL Item Defined in the DCD Rev.1	COL Item *Proposed in* MHI Letter UAP-HF-08259, dated on Nov 7, 2008	COL Item Re-proposal (Preliminary Draft, To be discussed at DCWG on July 16, 2009)	Reason	Proposed Resolutions in FSAR Rev.1	Preliminary Plan of COL Item Closure	
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COL 5.2(4)	Inservice inspection and testing program for the RCPB; The COL applicant addresses and develops the inservice inspection and testing program for the RCPB, in accordance with Section XI of the ASME Code and 10 CFR 50.55a.	Revised as follows: The COL applicant will identify the implementation milestones for in service inspection and testing program for the RCPB, in accordance with ASME Code Section XI and 10 CFR 50. 55a.	No change from MHI letter UAP-HF-08259	-	The implementation milestones for the ISI program and the IST program are provided in Table 13.4-201.	A	1b
COL 5.2(5)	Preservice inspection and testing program for the RCPB; The COL applicant addresses and develops the preservice inspection and testing program for the RCPB in accordance with Article NB-5280 of Section III, Division I of the ASME Code.	Revised as follows: The COL applicant will identify the implementation milestone for the preservice inspection and testing program for the RCPB, in accordance with ASME Code Division I, Section III, Article NB-	No change from MHI letter UAP-HF-08259	-	No Change from FSAR Rev.0 The preservice inspection (PSI) program complies with the editions and addenda of American Society of Mechanical Engineers (ASME) Code Section XI incorporated by reference in Code of Federal Regulations, Title 10 (10 CFR) 50.55a(b) as applied to the construction of the component. The implementation milestones for the PSI and preservice testing (PST) program are provided in Table 13.4-201.	A	1b and 1a
COL 5.2(10)	The COL applicant addresses the actual throat area of the pressurizer safety valves and the CS/RHR pump suction relief valves.	No Change	Deleted	The throat area itself is not used in safety analyses and the pressure defference and flow rate of the valve are already described in DCD as the design spec. of the valves instead of the throat area.	Deleted ~~The actual throat area for the pressurizer safety valves and the containment spray / residual heat removal (CS/RHR) pump suction relief valves will be determined based on the minimum required relief capacity at the set pressure for power operation by the valve vendor at the procurement stage, and will be incorporated in the updated FSAR.~~		
COL 5.3(1)	Pressure-Temperature Limit Curves; The COL applicant addresses the use of plant-specific reactor vessel P-T limit curves. Generic P-T limit curves for the US-APWR reactor vessel are shown in Figures 5.3-2 and 5.3-3, which are based on the conditions described in Subsection 5.3.2. However, for a specific US-APWR plant, *these limit curves are plotted based on actual* material composition requirements and the COL applicant addresses the use of these plant-specific curves.	No Change	No Change	-	~~Plant-specific curves will be developed and included in the pressure and temperature limits reports (PTLR) for CPNPP Units 3 and 4, as required by Technical Specification 5.6.4.~~ The pressure - tempreture limit curves for CPNPP Units 3 and 4 addressed in the generic pressure and temperature limits reports (PTLR) for the US-APWR reactor vessel is applied for CPNPP Units 3 and 4.	A	3a

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COL 5.3(2)	Reactor Vessel Material Surveillance Program; The COL applicant provides a reactor vessel material surveillance program based on information in Subsection 5.3.1.6.	No Change	No Change	-	No Change from FSAR Rev.0 The reactor vessel material surveillance program is implemented as an operational program. As the reactor vessel materials do not begin *to be affected by neutron fluence until the reactor begins critical* operation, this program is implemented prior to initial criticality, as identified in Table 13.4-201.	A	1a
COL 5.3(5)	Preservice and Inservice Inspection; The COL applicant provides the information for preservice and inservice inspection described in Subsection 5.2.4.	No Change	No Change	-	The detailed list of inservice and preservice inspections~~for the CPNPP Units 3 and 4 reactor vessel is~~, shown in DCD Tables 5.3-2 and 5.3-3, is used for CPNPP Unit 3 and 4.	A	3a
COL 6.1(1)	The COL Applicant complies with the provisions and recommendations provided by ASME NQA-1-1994, Part II when developing programs that support the cleaning of materials and components, cleanness control, and pre-operational flushing for systems that contain austenitic stainless steel components as recommended by RG 1.37. This program includes documentation to verify the compatibility of materials used in manufacturing ESF components with ESF fluids.	Deleted					
COL 6.1(2)	The COL Applicant is responsible to develop an augmented ISI program to ensure the structural integrity of pressure-retaining cold-worked austenitic stainless steel components.	Deleted					
COL 6.1(3)	The COL Applicant is responsible to develop a program to maintain an inventory of all acids and bases within the containment to aid in control of pH within a post-LOCA environment.	Deleted					
COL 6.1(4)	The COL Applicant is responsible to identify materials within the containment that would yield hydrogen gas by corrosion from the emergency cooling or containment spray solutions, and their use should be limited as much as practicable.	Deleted					

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COL 6.1(5)	The COL Applicant is responsible to identify and quantify all organic materials that exist in significant amounts in the containment (e.g., wood, plastics, lubricants, paint or coatings, electrical cable insulation, and asphalt). Coatings not intended for 60-year service without overcoating should include total overcoating *thicknesses expected to be accumulated over* the service life of the substrate surface.	Deleted					
COL 6.2(1)	The COL applicant is responsible to provide best estimates of these heatsinks in the COL application, update the FSAR based on as-built information and confirm the values are bounded by the values in containment analyses.	Deleted					
COL 6.2(5)	Preparation of a cleanliness, housekeeping and foreign materials exclusion program is the responsibility of the COL applicant. This program addresses other debris sources such as latent debris inside containment. This program minimizes foreign materials in the containment.	No Change	No Change	-	No Change from FSAR Rev.0 Administrative procedures implement the containment cleanliness program. Procedures to remove foreign materials and minimize the amount of debris that might be left in containment following refueling and maintenance outages address the following: ..... The containment cleanliness program including administrative procedures will be developed and implemented prior to initial fuel load.	A	2
COL 6.2(6)	As-built pipe run distances from outer containment isolation valve to the containment penetration are provided by the COL applicant.	Deleted					
COL 6.2(7)	The operating principle and accuracy of the *hydrogen monitor (combustible gas analyzers)* are provided by the COL applicant.	*Deleted*					
COL 6.2(8)	The COL applicant is responsible for the *containment leakage rate testing program* including, but not limited to, its preparation, exemptions, equipment, methods, procedures, conduct, limits, acceptance criteria, schedule, and reports.	Revised as follows: The COL applicant will be responsible for identifying the implementation milestone for the containment leakage rate testing program described under 10 CFR 50	No change from MHI letter UAP-HF-08259	-	No Change from FSAR Rev.0 The containment leakage rate test program requirements are defined by Technical Specifications Subsection 5.5.16. Implementation milestone of the containment leak rate tests program is provided in Table 13.4-201.	A	1b

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COL 6.2(9)	Selection, purchase, and installation of specific insulation products are controlled by administrative programs developed by the COL applicant.	Deleted					
COL 6.3(3)	The COL Applicant prepares normal, abnormal and emergency operating procedures for the ECCS, to include Safety Injection Pumps, Accumulators, and Emergency Letdown, including emergency operating instruction for feed-and-bleed operation.	Deleted					
COL 6.3(4)	The COL Applicant is responsible for developing a program to maintain RWSP water chemistry including surveillance test procedures.	Deleted					
COL 6.3(6)	The COL Applicant is responsible to prepare an as-built list of material used in or on the ECCS by their commercial names, quantities (estimate where necessary), and chemical composition and show that the radiolytic or pyrolytic decomposition products, if any, of each material will not interfere with the safe operation of this or any other ESF.	Deleted					
COL 6.4(2)	The COL Applicant is responsible to prepare and implement normal, abnormal, and emergency operating procedures for the MCR HVAC system, to include the main control room emergency filtration system.	Revised as follows: The COL Applicant will be responsible to discuss the automatic actions and manual actions for the MCR HVAC system in the event of postulated toxic gas release.	No change from MHI letter UAP-HF-08259	-	~~Operating procedures for normal, abnormal, and emergency operation of the MCR HVAC system are developed and implemented in accordance with Section 13.5. These procedures and associated training address the applicable operating and training aspects of Regulatory Guide (RG) 1.196. The procedures will be developed and implemented prior to initial fuel load.~~ The analyses of control room habitability during postulated release of toxic chemicals described in Subsection 6.4.4.2 identify no hazardous chemical that exceeds the IDLH criteria of RG 1.78, so that no specific automatic action of MCR HVAC system is required to protect operators within the CRE against toxic gas release event. The emergency isolation mode may be initiated by manual action as described in Subsection 6.4.4.2.	A	3a
COL 6.4(4)	The COL Applicant is responsible to determine the charcoal absorber weight, type and distribution.	Deleted					

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COL 6.5(4)	The COL Applicant is responsible to provide an as-built list of material used in or on the ESF filter systems by their commercial names, quantities (estimate where necessary), and chemical composition and show that the radiolytic or pyrolytic decomposition products, if any, of each material will not interfere with the safe operation of this or any other ESF.	Deleted					
COL 6.6(1)	The COL Applicant is responsible for the preparation of a preservice inspection program (non-destructive baseline examination) and an inservice inspection program for ASME Code Section III Class 2 and 3 systems, components (pumps and valves), piping, and supports in accordance with 10 CFR 50.55a(g), including selection of specific examination techniques and preparing appropriate inspection procedures.	Revised as follows: The COL Applicant will be responsible for identifying the implementation milestone for ASME Section X inservice inspection program for ASME Code Section III Class 2 and 3 systems, components (pumps and valves), piping.	No change from MHI letter UAP-HF-08259	-	No Change from FSAR Rev.0 A preservice inspection program (non-destructive base line examination) and an Inservice inspection program for American Society of Mechanical Engineers (ASME) Code Section III Class 2 and 3 systems, components (pumps and valves), piping, and supports will be developed and implemented in accordance with Table 13.4-201.	A	1b
COL 6.6(2)	The COL Applicant is responsible for preparing an augmented inservice inspection program for high-energy fluid system piping.	Revised as follows: The COL Applicant will be responsible to identify the implementation milestone for inservice	The COL Applicant~~will be~~ is responsible ~~to identify~~ for identifing the implementation milestone for the augmented inservice inspection program.	MHI Letter UAP-HF-09370	~~The non-destructive examination method is 100 percent volumetric examination of circumferential and longitudinal welds in the affected piping during each 10-year inspection interval, except as exempted by ASME Code, Section XI, IWC-1220~~. Implementation milestones of the augmented ISI program are the same as that specified for inservice inspection of Class 2 and 3 components provided in Table 13.4-201.	A	1b
COL 8.3(2)	The COL applicant is to provide ground grid and lightning protection.	No Change	No Change	-	The station ground grid and lightning protection system designs are based on soil resistivity data at CPNPP site, the maximum ground fault current level, ground fault clearing time, and the type and configuration of the structures to be protected from lightning strikes. Design ~~specification~~ information will be provided and incorporated in the updated FSAR ~~prior to procurement phase~~ before the issurance of COL.	A	3b

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COL 9.1(1)	The COL Applicant is to provide a program for monitoring the effectiveness of neutron poison present in the neutron absorbing panel.	No Change	Deleted	The program for monitoring the effectivenes of neutron *poision will be incorporated* in DCD Revision due to RAI No.247-2179 Revision 1.	Deleted ~~Detailed procedures will be prepared for the coupon measurements prior to fuel load. The pre-characterization and in-service characterization of the coupons involves the same testing. Acceptance criteria for the irradiated coupons will be established as part of the surveillance program development. As a minimum, testing criteria includes mechanical and geometrical properties, weight and specific gravity, and visual examination and imaging.~~		
COL 9.5(1)	The COL applicant establishes a fire protection program, including organization, training and qualification of personnel, administrative controls of combustibles and ignition sources, firefighting procedures, and quality assurance.	No Change	No Change	-	No Change from FSAR Rev.0 ..... In accordance with Table 13.4-201, procedures for implementing the CPNPP FPP are developed and implemented prior to start-up. All elements of the CPNPP FPP are reviewed every 2 years and updated as necessary.	A	1a
COL 10.2(1)	Inservice Inspection; The Combined License Applicant is to develop turbine maintenance and inspection procedure and then to implement prior to fuel load. Plant startup procedure including warm-up time will be completed therein.	No Change	Inservice Inspection; The Combined License Applicant is to ~~develop~~ establish a turbine maintenance and inspection procedure ~~and then to implement~~ prior to fuel load. ~~Plant startup procedure including warm-up time will be completed therein~~.	COL RAI#6 Response	A turbine maintenance and inspection procedure will be established prior to fuel load. ~~Plant specific turbine rotor test data and calculated toughness curves that support the material property assumption~~ in the turbine rotor analysis is to be obtained during procurement stage ~~and then turbine maintenance and inspection program is to be established prior to fuel loading. Plant start-up procedure including warm-up time is to be verified based on the specific material property~~.	A	2
COL 10.3(2)	Safety and relief valve information: The Combined License Applicant is to address the actual throat area of the MSSV.	No Change	Deleted	*The throat area itself is not* used in safety analyses and the pressure difference and flow rate of the valve are already described in DCD as the design spec. of the valves instead of the throat area.	Deleted ~~The actual throat area for the Main Steam Safety Valves will be determined based on the minimum required relief capacity at the set pressure for power operation by the valve vendor at the procurement stage, and will be incorporated in the updated FSAR~~.		
COL 11.3(5)	The COL applicant is to prepare a plan for offsite dose calculation manual in accordance with the guidance of NUREG-1301(Ref. 11.3-20), NUREG-0133(Ref. 11.3-21), and Regulatory Guides 1.109(Ref. 11.3-19), 1.111(Ref. 11.3-22), or 1.113(Ref. 11.3-23), containing site-specific requirements.	Deleted					

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COL 11.4(3)	The COL applicant is to prepare a plan for the process control program describing the process and effluent monitoring and sampling program. The plan should include the proposed implementation milestones.	No Change	No Change	-	No Change from FSAR Rev.0 This subsection adopts NEI 07-10, which is currently under review by the NRC staff. The Process Control Program (PCP) describes the administrative and operational controls used for the solidification of liquid or wet solid waste and the dewatering of wet solid waste. The purpose of the PCP is to provide the necessary controls such that the final disposal waste product meets applicable federal regulations (10 CFR Parts 20, 50, 61, 71, and 49 CFR Part 173), state regulations, and disposal site waste form requirements for burial at a low level waste disposal site that is licensed in accordance with 10 CFR Part 61. Waste processing (solidification and/or dewatering) equipment and services may be provided by third-party vendors. The process used in the existing design meets the applicable requirements of the PCP. Table 13.4-201 provides the milestone for PCP implementation.	A	1a
COL 11.4(4)	The COL applicant is responsible for the identification of the mobile/portable SWMS connections that are considered non-radioactive but later may become radioactive through contact or contamination with radioactive systems (i.e., a non-radioactive system becomes contaminated due to leakage, valving errors, or other operating conditions in the radioactive systems).*The COL applicant is to prepare a plan* to develop and use operating procedures so that the guidance and information in Inspection and Enforcement (IE) Bulletin 80-10 (Ref. 11.4-29) is followed.	No Change	~~The COL applicant is responsible for the identification of the mobile/portable SWMS connections that are considered non-radioactive but later may become radioactive through contact or contamination with radioactive systems (i.e., a non-radioactive system becomes contaminated due to leakage, valving errors, or other operating conditions in the radioactive systems).The COL applicant is to prepare a plan to develop and use operating procedures so that the guidance and information in Inspection and Enforcement (IE) Bulletin 80-10 (Ref. 11.4-29) is followed.~~ The COL applicant is to describe the mobile/portable SWMS connections that are considered non-radioactive but later may become radioactive through contact or contamination with radioactive systems (i.e., a non-radioactive system becomes contaminated due to leakage, valving errors, or other operating conditions in the radioactive systems), and operational procedures of the mobile/portable SWMS connections.	Clarification of COL Applicant's action	The mobile de-watering station is vendor supplied and operated within the specific requirements and layout based on vendor specifications. The mobile system includes the necessary connections and fittings to the interface with the plant piping. The connectors are uniquely designed to prevent inadvertent cross connection between the radioactive and non-radioactive plant piping. The piping also includes backflow inhibitors.~~Operating procedures will be developed and implemented with PCP so that the guidance and information in IE Bulletin 80-10 (Reference 11.4-29) is followed. The milestone for procedure implementation is listed in Table 13.4-201.~~ Liquid effluent from the mobile de-watering station is routed to the Liquid Waste Management System and the non-condensables are vented to the A/B ventilation system. Operational procedure will be in place prior to system use to ensure proper operation of the mobile de-watering station to prevent the contamination of non-radioactive piping or uncontrolled releases of radioactivity into the environment.	A	3a
COL 11.5(2)	The COL applicant is to prepare an offsite dose calculation manual to provide specific administrative controls and liquid and gaseous effluent source terms to limit the releases to site-specific requirements containing a description of the methods and parameters that drive to arrive radiation instrumentation alarm setpoint. The COL applicant is to commit to follow the NEI generic template 07-09 (Ref. 11.5-30) as an alternative to providing the offsite dose calculation manual at the time of application.	No Change	No Change	-	Fulfillment of the 10 CFR 50 Appendix I guidelines requires effluent monitor data. A description of the monitor controls and the calculation of the monitor setpoints are part of the ODCM. The ODCM also provides *the rationale for compliance with the radiological effluent Technical* Specifications and for the calculation of appropriate setpoints for effluent monitors. The ODCM follows the guidance of NEI 07-09. The ODCM and radiological effluent Technical Specifications, which reflect the new reactor units, are implemented in accordance with the milestone listed in Table 13.4-201.~~ CPNPP has already had an existing ODCM (Reference 11.5-201) that is to reflect the new reactor units~~.	A	1a

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COL 11.5(3)	*The COL applicant is to develop a radiological* and environmental monitoring program taking into consideration local land use and census data in identifying all potential radiation exposure pathways. The program shall take into account associated radioactive materials present in liquid and gaseous effluents and direct external radiation from SSCs. The COL applicant is to follow the guidance outlined in NUREG-1301(Ref. 11.5-21), and NUREG-0133 (Ref. 11.5-18) when developing the radiological effluent monitoring program. The COL applicant is to commit to follow the NEI generic template 07-09 (Ref. 11.5-30) as an alternative to providing the radiological effluent monitoring program at the time of application.	No Change	No Change	-	~~CPNPP currently has a radiological environmental monitoring program for CPNPP Units 1 and 2 that is described in the plant Technical Specifications and the existing ODCM.~~The program for CPNPP Units 3 and 4 is going to be described in the plant Technical Specification of CPNPP Units 3 and 4 and the ODCM, which reflect *the new reactor units, is implemented in accordance with the* milestone listed in Table 13.4-201. This program measures direct radiation using thermoluminescent dosimeters as well as analyses of samples of the air, water, vegetation, and fauna in the surrounding area. The guidance outlined in NUREG-1301 (Reference 11.5-21) and NUREG-0133 (Reference 11.5-18) is to be used when developing the radiological environmental monitoring program.The radiological environmental monitoring program for CPNPP Units 3 and 4 folllows the guidance of NEI 07-09.	A	1a
COL 11.5(5)	The COL applicant is to provide analytical procedures and sensitivity for selected radioanalytical methods and type of sampling media for site-specific matter.	No Change	No Change	-	The procedures for acquiring and evaluating samples of radioactive effluents, as well as procedures for inspection, calibration, and maintenance of the monitoring and sampling equipment are developed in accordance with RG 1.21 and RG 4.15. The procedures for the radioactive waste systems are developed in accordance with RG 1.33. The analytical procedures are developed in accordance with RG 1.21. These procedures, described in Subsection13.5.2, are prepared and implemented under the quality assurance program referenced in Chapter 17.	A	2
COL 12.1(5)	The COL Applicant is to provide the operational *radiation protection program for ensuring that* occupational radiation exposures are ALARA.	*No Change*	*No Change*	-	No Change from FSAR Rev.0 NEI 07-03, Generic FSAR Template Guidance for Radiation Protection Program Description, Revision 5, is incorporated by reference. Site specific information in radiation protection program will be *implemented in accordance with the milestones listed in Table* 13.4-201, by utilizing of NEI 07-03 and NEI 07-08, Generic FSAR Template Guidance for Ensuring that Occupational Radiation Exposures are as Low as is Reasonably Achievable (ALARA), Revision 1, in combination with existing or modified CPNPP Units 1 and 2 site program Information.	A	1a
COL 12.2(1)	The COL Applicant is responsible for the use of any additional contained radiation sources that are not identified in subsection 12.2.1, including radiation sources used for instrument calibration or radiography.	No Change	The COL Applicant is ~~responsible for the use of~~ to list any additional contained radiation sources that are not identified in subsection 12.2.1, including radiation sources used for instrument calibration or radiography.	Clarification of COL Applicant's action	Any additional solid, liquid and gaseous radiation sources that are not identified in Subsection 12.2.1, including radiation sources used for instruments calibration or radiography, will be provided when such site-specific information would become available in the procurement phase. These sources will be incorporated in the updated FSAR.	A	3b

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COL 13.4(1)	The COL Applicant is to develop a description and schedule for the implementation of operational programs. The COL Applicant is to "fully describe" the operational programs as defined in SECY-05-0197 (Ref. 13.4-1) and provide commitments for the implementation of operational programs required by regulation. In some instances, programs may be implemented in phases. The COL Applicant is to include the phased implementation milestones in their submittal.	No Change	No Change	-	Table 13.4-201 identifies the required Operational Programs ~~required by regulation~~ including the associated FSAR Sections and committed Milestones for implementation. Each operatinal program is "fully described" in the the associated FSAR Sections.	A	1a
COL 13.5(1)	The COL Applicant is to develop administrative procedures describing administrative controls over activities that are important to safety for the operation of a facility.	No Change	No Change	-	No Change from FSAR Rev.0 The Plant Manager develops and implements written administrative procedures that assign the responsibilities and authorities of the plant staff. These administrative procedures also provide the control measures for the preparation, review, approval, revision, and use of all station procedures and instructions that govern quality related activities. Administrative procedures ensure that station procedures and instructions are reviewed by qualified personnel, approved by authorized personnel, and distributed to and used by the personnel performing the prescribed activity. The administrative controls used during the operations phase, which are described in this section, are consistent with the provisions of RG 1.33. Administrative procedures and operating procedures necessary for operator training and preparation for operator license examinations will be completed 18 months prior to fuel loading. All other procedures and instructions are prepared and approved prior to their use for performing the prescribed safety-related activity.	A	2
COL 13.5(3)	The COL Applicant is to develop procedures performed by licensed operators in the main control room. Operating procedures that are used by the operating organization to ensure routine operating, off-normal, and emergency activities are conducted in a safe manner are described. The plan includes the implementation of these procedures (Ref. 13.5-3).	No Change	No Change	-	No Change from FSAR Rev.0 Operating procedures for all anticipated conditions affecting reactor safety are written prior to initial fuel loading. These procedures are grouped into the following classifications:	A	2
COL 14.2(3)	The COL applicant provides the process used to develop test specifications and test procedures. [14.2.3]	Deleted		MHI letter UAP-HF-08199	Deleted		

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COL 14.2(7)	The COL applicant provides a schedule for the development of plant procedures that assures required procedures are available for use during the preparation, review and performance of preoperational and startup testing. [14.2.9]	No change	The COL applicant provides an event-based schedule, relative to fuel loading, for conducting each major phase of the test program, and a schedule for the development of plant procedures that assures required procedures are available for use during the preparation, review and performance of preoperational and startup testing. For multiunit sites, the COL applicant discusses the effects of overlapping initial test program schedules on organizations and personnel participating in each ITP. The COL applicant identifies and cross-references each test or portion of a test required to be completed prior to fuel load which satisfies ITAAC requirements. [14.2.9] [14.2.11]	MHI letter UAP-HF-09133	No Change from FSAR Rev.0 A schedule for the development of plant procedures required for use during preoperational testing will be provided to the U.S. Nuclear Regulatory Commission (NRC) 12 months prior to the start of the corresponding preoperational tests. A schedule for the development of plant procedures required for use during startup testing is provided to the NRC 12 months prior to the start of fuel loading. The schedules provide sufficient detail to assure that the procedures required to support testing are available for test procedure preparation, review and performance.	A	4
COL 14.2(8)	The COL applicant provides an event-based schedule, relative to fuel loading, for conducting each major phase of the test program. For multiunit sites, the COL applicant discusses the effects of overlapping initial test program schedules on organizations and personnel participating in each ITP. [14.2.11]	No change	Combined with COL 14.2(7)	MHI letter UAP-HF-09133			
COL 16.1_3.3.1(1)	The trip setpoints and allowable values in Table 3.3.1-1 are to be confirmed after completion of a *plant specific setpoint study following selection of* the plant specific instrumentation.	No Change	No Change	-	Under discussion with NRC	A	3b
COL 16.1_3.3.2(1)	The trip setpoints and allowable values and time delay value in Table 3.3.2-1 are to be confirmed after completion of a plant specific setpoint study following selection of the plant specific instrumentation.	No Change	No Change	-	Under discussion with NRC	A	3b

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COL 16.1_3.3.5(1)	The trip setpoints and time delay values in SR 3.3.5.3 are to be confirmed after completion of a plant specific setpoint study following selection of the plant specific instrumentation.	No Change	No Change	-	Under discussion with NRC	A	3b
COL 16.1_3.3.6(1)	The trip setpoints and allowable values in Table 3.3.6-1 are to be confirmed after completion of a plant specific setpoint study following selection of the plant specific instrumentation.	No Change	No Change	-	Under discussion with NRC	A	3b
COL 17.4(1)	The COL Applicant shall be responsible for the development and implementation of the Phases II and III of the D-RAP. In the Phase II, the plant's site-specific information should be introduced to the D-RAP process and the site-specific SSCs should be combined with the US-APWR design SSCs into a list for the specific plant. In the Phase III, procurement, fabrication, construction, and test specifications for the SSCs within the scope of the RAP should ensure that significant assumptions, such as equipment reliability, are realistic and achievable. The QA requirements should be implemented during the procurement, fabrication, construction, and pre-operation testing of the SSCs within the scope of the RAP.	No Change	The COL Applicant shall be responsible for the development and implementation of the Phases II and III of the D-RAP, including QA requirements. In the Phase II, the plant's site-specific information should be introduced to the D-RAP process and the site-specific risk significant SSCs should be combined with the US-APWR design risk significant SSCs into a list for the specific plant. Phase II is performed during the COL application phase and updated/maintained during the COL license holder phase. In the Phase III, procurement, fabrication, construction, and test specifications for the SSCs within the scope of the RAP should ensure that significant assumptions, such as equipment reliability, are realistic and achievable. The QA requirements should be implemented during the procurement, fabrication, construction, and pre-operation testing of the SSCs within the scope of the RAP. Phase III is performed during the COL license holder phase prior to initial fuel loading. The COL applicant will propose a method by which it will incorporate the objectives of the reliability assurance program into other programs for design or operatio	MHI Letter UAP-HF-09066	Phases II and III of the D-RAP occur before initial fuel load. Phase II, the site-specific phase, introduces the site-specific design information to the D-RAP process. The program of Phase III, the last phase of the D-RAP, will be established prior to the procurement, fabrication, construction, and pre-operational testing.	A	2

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COL 17.4(2)	The COL Applicant shall be responsible for the development and implementation of the O-RAP in which the RAP activities should be integrated into the existing operational program (i.e., Maintenance Rule, surveillance testing, in-service inspection, in-service testing, and QA). The O-RAP should also include the process for providing corrective actions for design and operational errors that degrade nonsafety-related SSCs within the scope of the RAP.	No Change	The COL Applicant shall be responsible for the development and implementation of the O-RAP, in which the RAP activities should be integrated into the existing operational program (i.e., aintenance Rule, surveillance testing, in-service inspection, in-service testing, and QA). The O-RAP should also include the process for providing corrective actions for design and operational errors that degrade nonsafety- related SSCs within the scope of the RAP. A description of the proposed method for developing / integrating the operational RAP into operating plant programs (e.g., maintenance rule, quality assurance) is performed during the COL application phase. The development/integration of the operational RAP is performed during the COL license holder and phase prior to initial fuel loading. All SSCs identified as risk-significant within the scope of the D-RAP should be categorized as high-safety-significant (HSS) within the scope of initial Maintenance Rule.	MHI Letter UAP-HF-09066	The O-RAP, which addresses the specific plant operation and maintenance activities, will be developed and implemented prior to the initial fuel loading by integrating the RAP activities into the specific plant operational program (Maintenance Rule, surveillance testing, in-service inspection, in-service testing, and QA, as appropriate). ~~The O-RAP, which addresses the specific plant operation and maintenance activities, will be implemented prior to the initial fuel loading~~.	A	1b
COL 17.6(1)	The COL applicant develops and implements the program for implementation of 10 CFR 50.65, the Maintenance Rule.	No Change	No Change	-	No Change from FSAR Rev.0 This subsection incorporates by reference NEI 07-02A, "Generic FSAR Template Guidance for Maintenance Rule Program Description for Plants Licensed under 10 CFR Part 52," (Reference 17.6-201) which was approved by the NRC. The text of the template provided in NEI 07-02A is generically numbered as "17.X" and "17.Y." When the template is incorporated by reference into this FSAR, section numbering is changed from "17.X" to "17.6.2" and from "17.Y" to 17.4." Descriptions of the programs listed in Subsection 17.6.2.3 of NEI 07-02A are provided in the following Part 2 FSAR chapters/sections or Part 4: • Maintenance Rule Program (Section 17.6) • Quality Assurance Program (Chapter 17) • Inservice Inspection Program (Sections 5.2 and 6.6) • Inservice Testing Program (Sections 3.9 and 5.2) • Technical Specifications Surveillance Test Program (Part 4)	A	1b
COL 19.3(1)	The COL Applicant who intends to implement risk-managed technical specifications continues to update Probabilistic Risk Assessment and Severe Accident Evaluation to provide PRA input for risk-managed technical specifications.	No Change	The COL Applicant who intends to implement risk-managed technical specifications upgrade Probabilistic Risk Assessment and Severe Accident Evaluation to implement the RMTS and SFCP.	-	~~Luminant will update PRA and severe accident (SA) evaluation considering the site-specific design before the first fuel load, and the obtained PRA insights will be provided as required to implement the RMTS and SFCP~~. The PRA needed for implementation of RMTS and SFCP will be available one year prior to the first fuel load.	A	4

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COL 19.3(5)	When the design activity progresses and specific design data becomes available, SSC fragilities are updated during the COLA phase to reflect specific design data.	Deleted	Under discussion with NRC				
COL 19.3(6)	The COL applicant develops an accident management program based on the U.S. industry initiated and coordinated program in this area and related information from efforts on an international front.	Deleted	The COL applicant develops an accident management program ~~based on the U.S. industry initiated and coordinated program~~ in ~~this area and related information from efforts on an international front~~, which includes severe accident management procedures that capture important operator actions. Training requirements are also included as part of the accident management program.	MHI letter UAP-HF-09305	19.2.5 Accident Management An accident management program will be developed, in which severe accident management procedures that capture important operator actions described in the severe accident management framework are included. The accident management program will incorporate the instructions provided in NEI 91-04 Revision 1 (Reference 19.2-201). Development of emergency operating procedures ~~as part of the accident management program~~ is addressed in Subsection 13.5.2.1. Training requirements will also be developed ~~as part of the accident management program~~ addressed in Section 18.9, and training for operators will be completed prior to first fuel load.	A	2