



Report ITAAC

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Overview

- ◆ Scope Includes AP1000, APWR, ABWR and ESBWR
 - Includes some Site Specific ITAAC
- ◆ 74 Distinct overlapping categories of Report ITAAC were identified
 - AP1000 44
 - APWR 52
 - ESBWR 18
 - ABWR 14
- ◆ Identified similar ITAAC which do not require Reports



Limited Scope

- ◆ **DAC and D-RAP Not Addressed in this initiative**
- ◆ **Straightforward Inspection/Test “Reports” assumed to be Inspected by Region**
 - Physical Attributes, Volume/Area/Size
 - Component As-built Inspections
 - Filter test, Component Functional Test
 - Report consists of completed inspection/test document



Limited Scope

- ◆ 35 Report ITAAC Categories impact only one of the four Design Centers (DC)

Visual Exam (I)	Pump Flow (T)	Structural As-built (IA)
Seismic II/I (I)	MCR Displays (IT)	Flood (A)
MOV As-Built (I)	System Leakage (T)	Heat Loads (TA)
Structural As-built (I)	Filter Testing (T)	LTOP (A)
Missile Shield (I)	Air Inleakage (T)	Harmonics (A)
Div Separation (I)	MCR Displays (T)	Seismic HCLPF (A)
Emer Planning (I)		Fuel Rack (A)
Flood Protection (I)		Safe Shutdown (A)
Security (I)		Pump Flow (TA)



Technical Assistance Requests

- ◆ Assumed TAR Requests limited to complex analyses
- ◆ 49 Report ITAAC involving Analysis have potential for TAR Process
 - Those impacting single DCs handled with Licensee (21)
 - Leverage Existing Guidance in Industry Documents (12)
 - Credit Guidance Provided in DCDs (3)



Existing Industry Guidance

- ◆ Environmental Qualification – IEEE 323
- ◆ Seismic Qualification – IEEE 344
- ◆ Functional Qualification – QME-1
- ◆ Piping/Equip Design – ASME Section III
- ◆ Piping As-Built – ASME Section III
- ◆ Piping/Equip Weld/Hydrotest – ASME Section III
- ◆ Cranes – ASME NOG-1
- ◆ NPSH – RG 1.82



DCD Guidance

- ◆ Analytical Requirements are delineated for:

<u>Requirement</u>	<u>Applicable DCD Section</u>
High Energy Line Break	Section 3.6
Leak Before Break	Section 3.6/SRP 3.6.3
Flow Induced Vibration	Section 3.9.2/SRP 3.9.5

Potential Candidates

<u>Design Commitment</u>	<u>Design Center</u>
Piping SQ As-built (IA)	AP1000/ESBWR/APWR/ABWR
Comp SQ As-built (IA)	AP1000/ESBWR/APWR
Structural As-Built (IA)	AP1000/APWR/ABWR
Seismic Analysis (A)	AP1000/ESBWR/ABWR
Shearwave (TA)	AP1000/ESBWR/ABWR
SRV Functional Qualification (TA)	AP1000/ESBWR/APWR
System Performance (TA)*	AP1000/ESBWR/APWR

* Catch All

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Potential Candidates

<u>Design Commitment</u>	<u>Design Center</u>
Flooding Analysis (IA)	AP1000/ABWR
Security Barriers (TA)	ESBWR/APWR
HVAC Performance (TA)	AP1000/APWR
Leak Detection Sensitivity (TA)	AP1000/APWR
Insulation/Coatings (IA)	AP1000/APWR
Heat Exchanger Capacity (TA)	AP1000/APWR
Pressure Loss (TA)	AP1000/APWR



Conclusions

- ◆ **Industry Issue confined to small subset of report ITAAC**
 - 23 Report ITAAC require just Inspection/Test
 - 22 Report ITAAC which require analysis impact just one DC
 - 15 Report ITAAC which require analysis have existing guidance
- ◆ **16 Report ITAAC categories require analysis and impact more than one DC**
- ◆ **Discussion**