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U.S. Nuclear Regulatory Commission
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Your ref: Docket No. 52-006
Our ref: DCP_NRC_002512

June 24, 2009

Subject: Transmittal of Minutes, Attendance List and Slides presented during the April 28, 2009
QA/ITAAC Workshop conducted at the Westinghouse Energy Center in Monroeville, Pennsylvania.

Westinghouse is providing a hardcopy or electronic .pdf copy (as applicable) of the following files for
your information and use:

1. 4-28 NRC QA-ITAAC Workshop Agenda.pdf
2. 4-28 NRC QA-ITAAC Workshop Attendance.pdf
3. 4-28 NRC QA and ITAAC Workshop Meeting Summary.pdf
4. WAAP-6827 CONSORTIUM-NRC QA AND ITAAC WORKSHOP PRESENTATION
SLIDES.pdf

Questions or requests for additional information related to the content and preparation of this response
should be directed to Westinghouse.

Very truly yours,

Robert Sisk, Manager
Licensing and Customer Interface
Regulatory Affairs and Standardization

/Enclosures

cc:	J. Peralta	-	U.S. NRC	1E
	M. Concepcion	-	U.S. NRC	1E
	D. Jaffe	-	U.S. NRC	1E
	R. Sisk	-	Westinghouse	1E
	D. Harmon	-	Westinghouse	1E
	W. Crisler	-	Shaw	1E
	J. Oddo	-	Shaw	1E
	J. Davis	-	SNC	1E
	R. Grumbir	-	NUSTART	1E
	J. Whiteman	-	Westinghouse	1E

DN63
N60

AGENDA

April 28
QA/ITAAC Workshop with NRC
Monroeville, Energy Center

<u>Time:</u>	<u>Topic:</u>	<u>Discussion Lead</u>
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A Continental Breakfast will be Available beginning at 8 AM

8:15 AM	Welcome and Introduction	Rob Sisk/Juan Peralta
9:00 AM	EPC Quality Program Expectations Sub-Vendor Quality Program Vendor Inspection Program	Windell Crisler/Dale Harmon
	Mangiarotti Update	Gene Zottola
	Squib Valve Qualification Program Update	Ron Wessel
11:15 AM	Engineering Design Verification (EDV) Process - Timing	Discussion

AGENDA (Continued)

April 28
QA/ITAAC Workshop with NRC
Monroeville, Energy Center

<u>Time:</u>	<u>Topic:</u>	<u>Discussion Lead</u>
Noon	Lunch	
1:30 PM	ITAAC Procedures <ul style="list-style-type: none">- APP-GW-GAP-117- Our work with NEI on 08-01	Thom Ray John Oddo
2:00 PM	ITAAC Closure Process <ul style="list-style-type: none">- COLA- Consortium	Discussion Thom Ray
2:45 PM	Schedule for Performance and Documentation Plans	Thom Ray
3:00 PM	The Timing of ITAAC Closure letters to the NRC	Thom Ray
3:30 PM	Overall AP1000 Engineering Planning and Deployment Process	Bruce Bevilacqua
4:15 PM	Wrap –up	Rob Sisk/Juan Peralta
End by 5:00 PM		

April 28 NRC/W QA workshop

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April 28th NRC QA and ITAAC Workshop Meeting Summary

The following are key notes taken from the introductory remarks by the NRC and ongoing dialogue during the QA/ITAAC Workshop held at the Westinghouse Energy Center on Tuesday, April 28, 2009 in Monroeville, Pennsylvania.

This Workshop was set-up based on an NRC request. The Workshop included participants from the NRC, the Westinghouse – Shaw Consortium, and NUSTART (See the attached Attendance List). The Consortium presented a day long agenda (See attached Agenda) that covered topics from the Engineering, Procurement and Construction (EPC) Contract Quality Program to an overview of the AP1000 Engineering Planning and Deployment strategy for design finalization (See the attached PDF version of the slides presented) .

The NRC came into this Workshop focused gathering information to enable them to begin to move forward. Specifically how far along actually is the AP1000 design and how finalization of the design is being sequenced (i.e., when is it going to be done) within the Consortium.

The NRC noted that the Engineering Design Verification (EDV) pilot inspection done last year was premature and not valuable. They are looking for the a practical way to determine when and how to apply EDV inspections (e.g., inspection by system, by area, tie EDV Inspection to ITAAC, etc).

It was noted in the meeting that EDV is not a Licensing Activity; it is not review of the design, it is verification that the design is being accurately implemented in what is being bought (i.e., translation of design into specifications and procurement)

The NRC is clearly focused on trying to determine when is the right time to do EDV Inspections and promoting ongoing dialogue in a manner that can build upon this exchange. It appeared to be clear in this meeting that everyone participating recognizes that the development of an open line of communication is vital to the successful implementation.

Resultant discussions focused on developing the means to expand upon the dialogue that has occurred to date and effectively determine when windows of Engineering involvement (e.g., it would be both prudent and practical to conduct EDV in conjunction with Final design reviews which are scheduled, offer sufficient detail, and trackable closure to open items) will be open.

Based on feedback provided in the wrap-up portion of the meeting, it appeared that the NRC was appreciative of the level of detail presented and the candid dialogue that took place afterward. A key Action Item was identified (below) and follow-up discussions

will be initiated after all of the participants have had the opportunity digest the information that was shared.

Action Item – A protocol needs to be developed to more readily enable the sharing of scheduler information between vendors and the NRC.

WAAP-6827

Westinghouse Letter DCP_NRC_002512

**Consortium/NRC
QA and ITAAC Workshop**

**Westinghouse Non-Proprietary Class 3
SHAW Non-Proprietary**

April 28, 2009

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EPC QUALITY PROGRAM

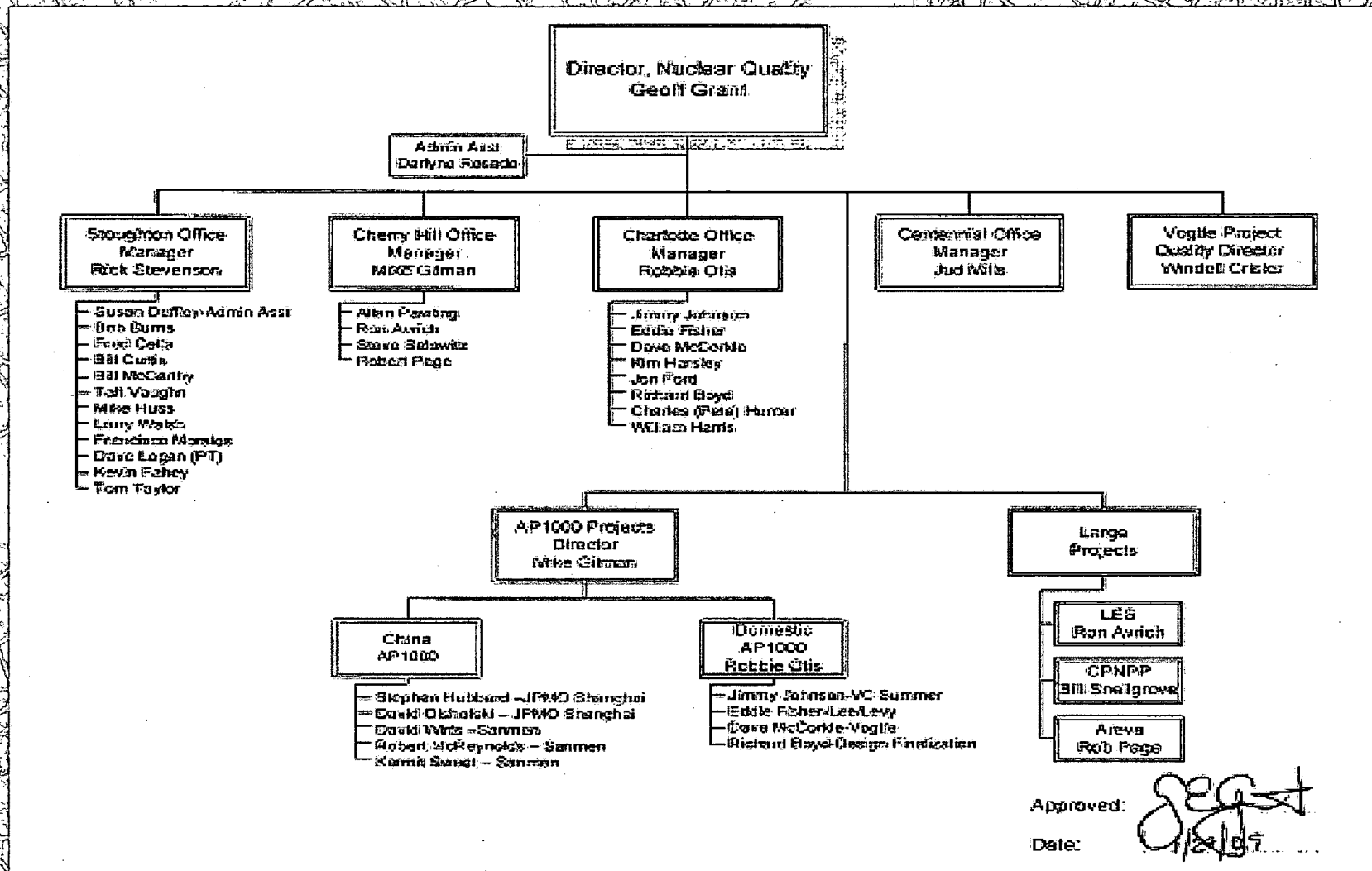
Windell Crisler

Shaw

April 28, 2009



Shaw QA/QC Organization



Quality Control Staffing

- **Staffing Plan Developed Using Project Schedule**
 - **Key Personnel Selected**
 - QC Manager
 - QA Records
 - Performance Improvement
 - In advance of Need to Allow for Training/Certification
 - Disciplines Staffed to Support Upcoming Features of Work
 - Core Group of Key Personnel
 - Entry-Level Inspectors
- **Inspection Planning in Advance of Need**



Quality Control Inspector Training Programs

Discipline Specific

Civil (100)

Batch Plant
Pre-placement
Placement\Grout
Backfill
Struct Steel
Concrete Testing
Cement Testing
Soil Testing
Tensile/Rebar

Electrical (200)

Raceway Install,
Supports &
Embedment

Cable Install &
Termination

Equipment/
Penetrations

Mechanical (300)

Equipment
Comp Supports
Pressure testing
Piping
HVAC Systems
Mech I & C
Rigging/Handling

Quality (400)

M&TE
Equip.

Receipt Insp.

Source
Surveillance

Special Process (500)

Cadwelding
Concrete Anchors
Protective Coatings
Studwelding
Welding
Structural Weld
Pipe Welding
Halogen Leak
Pressure Bubble
Alloy Analysis

NDE Training Programs

Visual

ASME III
NF/NG

ASME XI
Overview

ASME XI
VT-1

ASME XI
VT-2

ASME XI
VT-3/4

Liquid Penetrant

PT
Examination

PT Visible
Dye Solvent

Magnetic Particle

MT
Examination

MT
Prod/Yoke
Only

Radiography

RT
Examination

RT Film
Interpretation

Ultrasonic

UT
Examination

UT Thickness

Leak Testing

Bubble

Vacuum Box

Halogen Leak

Pressure
Change

Supplier Quality Requirements and Expectations

WEC QA

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Westinghouse Quality Requirements

- Graded approach
 - Safety Related
 - Safety Significant
 - Non-safety
- Quality Program requirements based on
 - Regulatory requirement
 - Industry consensus standard
 - Westinghouse business need



Equipment and System Classifications

- “Safety Related”

- Maintain integrity of the reactor pressure boundary
- Required for safe shutdown of the plant.
- Prevent release of radiation to the public.

- “Safety Significant”

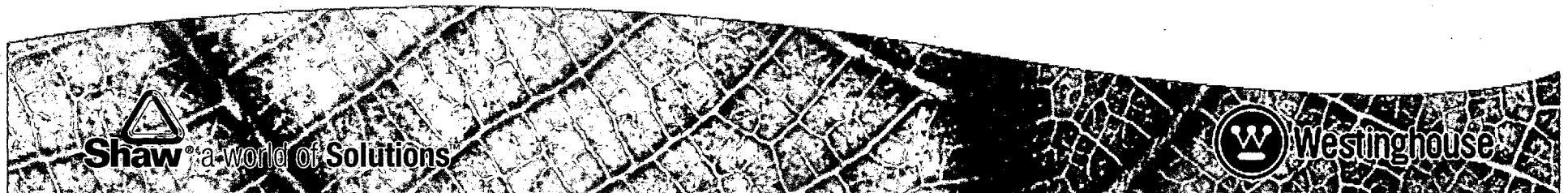
- Non-safety related systems that contribute to plant safety.
- Important for protection of investment.

- “Non-safety Related”



Westinghouse Supplier Quality Requirements

- Safety Related components
 - 10CFR50 Appendix B (regulatory requirement)
 - NRC Regulatory Guide 1.28
 - ASME NQA-1 1994
 - 10CFR21 (Reporting of significant safety issues)
 - Westinghouse QAR/SQAR (oversight, right of access)
 - ASME Code (where applicable)



Westinghouse Supplier Quality Requirements

- Safety Significant systems and components
 - Westinghouse Spec APP-GW-GAM-200 (based on USNRC NUREG-0800 Section 17.5 II V)
 - Review of suppliers quality program with proposal
 - Audit performance of suppliers QA program
 - Aligned with 18 Criteria of 10CFR50 Appendix B and ASME NQA-1

Westinghouse Supplier Quality Requirements

● Non-safety related components

- Review of suppliers quality controls with proposal
- Good commercial practice
- Past performance

Supplier Qualification

- Consideration of supplier capability / past performance
- Quality Assurance program to Nuclear or Westinghouse requirements
- Consideration of utility, nuclear and related industry experience with candidate suppliers
- Quality assurance compliance audit for Safety related and Safety Significant items



Supplier Oversight Principles

- Level of supplier oversight is situational dependant and addresses a combination of factors
 - Complexity / importance of component
 - Supplier experience and performance including first time application
 - Robustness of supplier controls / QA program
 - Supplier “quality culture”

Sufficient involvement and support to ensure effectiveness of suppliers internal controls

Supplier Oversight Performance

- Forms of supplier oversight
 - Resident QA and Technical support
 - Periodic process surveillance
 - Witness and hold point program
 - Final product review and release



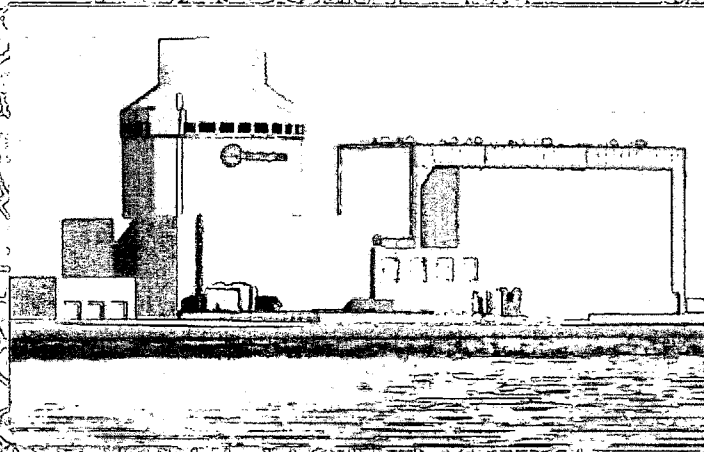
VENDOR INSPECTION PROGRAM

WEC QA

April 28, 2009



Mangiarotti Nuclear Milano, Italy



Gene Zottola

SCM

April 28, 2009



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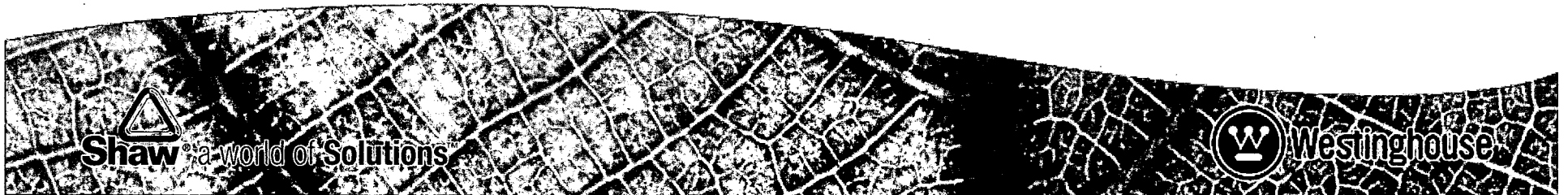
Agenda

- Scope of supply
- Witness and hold point program
- WEC Mfg & QA Residents



Scope of Supply

- Pressurizers
- Passive Residual Heat Removal Heat Exchanger
- Accumulator Tanks
- Core Make Up Tanks



Witness & Hold Point Program

- Mangiarotti (MN) W/H Points on Significant Manufacturing Process Steps
- WEC review and approval of MN W/H Program
- Customer review and approval of WEC revised W/H Program
- Final Program made contract deliverable
- Sample W/H Point Schedules provided

WEC In-Country Residents

- SCM Manufacturing Specialist and in-country Lead
 - Mr. John Mortara May 1, 2009
- QA Engineering Lead
 - Mr. Larry Mountan May 1, 2009



AP1000 Squib Valve Qualification Program Status

Ron Wessel
Auxiliary Equipment Engineering/EQ
April 28, 2009



Overall AP1000 Engineering Planning and Deployment Process

Discussion

Engineering Design Verification (EDV) Process

**Bridging the GAP between DCD
info and ITAAC Closure**

Discussion

AFTERNOON SESSION

Engineering Design Verification (EDV) Process

Discuss possibilities, including scope and
schedule, for future EDV Pilots

Discussion

ITAAC Procedure APP-GW-GAP-117

Thom Ray

AP1000 Licensing & Customer Interface

(412) 374-5309



APP-GW-GAP-117

- ITAAC Implementation Program
- ITAAC Process – Phase 1
- ITAAC Process – Phase 2
- ITAAC Process – Phase 3

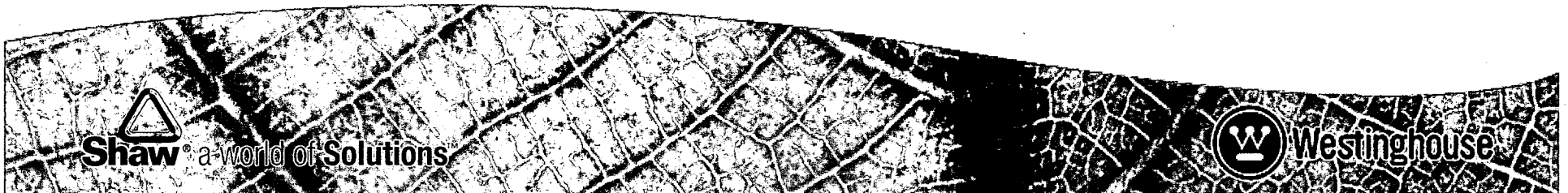


ITAAC IMPLEMENTATION PROGRAM

	Phase 1	Phase 2	Phase 3
Purpose:	Develop Technical Closure Plans for ITAAC Acceptance Criteria	Develop Standard Licensing documentation for each project to supply to NRC as ITAAC closure	Develop process to implement ITAAC execution for each project
Deliverable:	ITAAC Performance & Documentation Plan (PDP) Procedure	ITAAC Closure Documentation Plan Procedure	Project ITAAC Implementation Procedure
Control Basis:	APP-GW-GAP-117	APP-GW-GAP-117 next rev.	Project Procedure
Lead:	Westinghouse/Shaw (Std for AP1000s)	Westinghouse/Shaw/Southern/SCANA (Std for AP1000s and meets industry guidance)	Project
<u>Responsible Owner</u>			
For Process:	C1 st (D. Hutchings)	C1 st (D. Hutchings)	Project
For Implementation:	Licensing (R. Sisk / T. Ray)	Licensing (TBD / TBD)	Project
Process Development Status:	Complete	Started. Procedure Issued May 2009	Not Started. Target Completion TBD
Implementation Status:	Started. Completion of All PDPs by Sept 2010	Not Started. Target Completion TBD	Not Started. Target Completion TBD

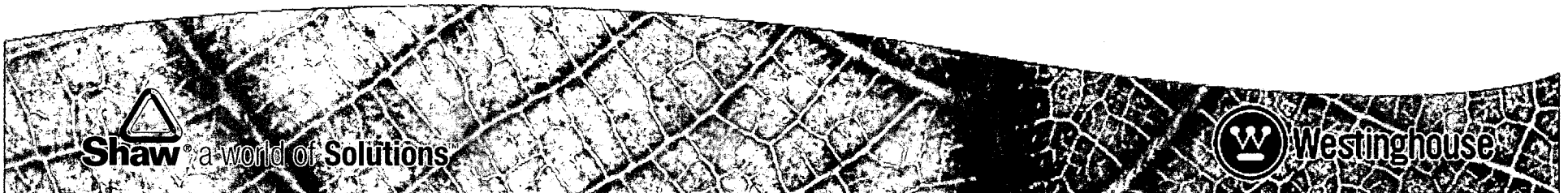
ITAAC Process – Phase 1

- Procedure developed for ITAAC Implementation
 - ITAAC Database created to track all Standard ITAACs
 - Development of ITAAC Performance and Documentation Plans (PDP) for Each Standard Plant Acceptance Criteria
 - Performance and Documentation plans reviewed by expert panel (Westinghouse/SHAW/Utilities)
 - ITAAC placed in Standard AP1000 schedule
 - ITAAC PDP used as part of ITAAC closure process as detailed in NEI 08-01



ITAAC Process – Phase 2

- Team of Westinghouse/SHAW and utilities working together to meet the following objectives:
 - Establish what needs to be done to perform and document Site-Specific ITAACs in technical space
 - Clearly establish how and what AP1000 Customers should communicate to the NRC for closure of all AP1000 ITAACs
 - Ensure that Westinghouse and its Customers have clearly defined roles and responsibilities so as to have high confidence in successfully closing all ITAAC (standard and site-specific)
- Use process developed in Phase 1 as Building Block for Guidance Developed for Phase 2 of the process.
- Issue Procedure in May of 2009.



ITAAC Process – Phase 3

- **Project Team will take the Phase 2 procedure and create a project specific procedure for each Project.**
- **Based on APP-GW-GAP-117 but tailored for Project Specific Needs.**
- **Issued for Projects prior to Nuclear Safety Work on-site.**



ITAAC Closure Process

Thom Ray, Jim Davis, Hamer Carter

Westinghouse/Southern/Progress



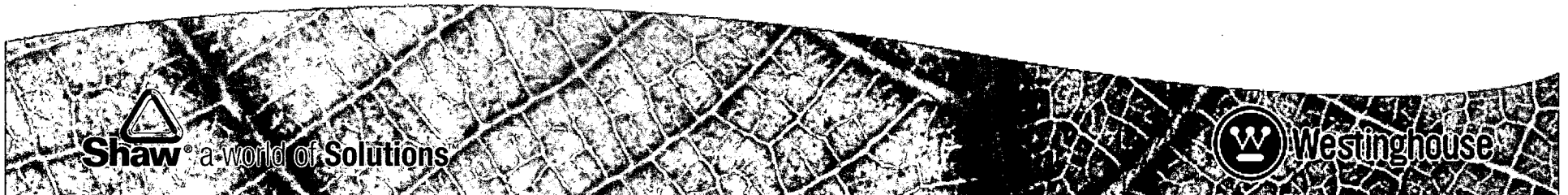
APP-GW-GAP-117

- Requirements per 10 CFR 52.99
- Guidance Provided in NEI 08-01 (DG 1204)
- Closure Packages
- Closure Letters



Requirements per 10 CFR 52.99

- 10CFR52.99(c)(1) – Licensee shall notify the NRC that the acceptance criteria have been met.
 - Notification must contain sufficient information to demonstrate that the prescribed inspections, tests, and analyses have been performed and that the prescribed acceptance criteria have been met.



Guidance Provided in NEI 08-01 (DG 1204)

- Section 5.1 – Guidance for Oversight of ITAAC closure activities and maintenance of records.
 - 5.1.1 – The licensee should establish an ITAAC closure team for each site. – Part of Phase 3 makeup
 - 5.1.2 – The licensee and its vendors should establish a method for closing each ITAAC. – Phase 1 and Phase 2
 - 5.1.3 – The ITAAC closure package provides the technical basis for the licensee's submittals under Section 52.99(c). Phase 2 and Phase 3.

ITAAC Closure Packages

- Format as defined in NEI 08-01 Section 5.2
 - Key Items:
 - Determination Basis
 - ITAAC-Related Construction Findings
 - PI&R Items Related to ITAAC
 - Documents referenced in the Closure Letter
- Readily retrievable for ease of later verification by team members or NRC during inspections



ITAAC Closure Letters

- Basis for the licensee's conclusion that ITAAC acceptance criteria have been met.
- Format as defined in NEI 08-01 Section 6 and examples as provided in Appendix D
 - Key Items:
 - ITAAC Determination Basis
 - ITAAC-Related Construction Findings
 - ITAAC Closure Statement
 - List of References

– ITAAC Statement

ITAAC Procedures Our Work with NEI on 08-01

John Oddo



NEI 08-01 “INDUSTRY GUIDELINE FOR ITAAC CLOSURE PROCESS

- STATUS
- NRC DRAFT REGULATORY GUIDE DG-1204
- “GUIDANCE FOR ITAAC CLOSURE UNDER 10 CFR PART 52”
- (New Regulatory Guide) - Issued March 2009
 - Provided for public comment
 - Endorse40s methodologies in NEI 08-01 Revision 3, January 2009



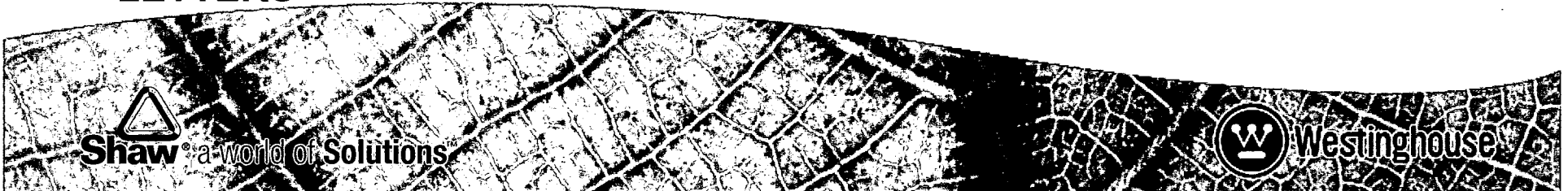
NEI 08-01 “INDUSTRY GUIDELINE FOR ITAAC CLOSURE PROCESS”

- **CONTENT HIGHLIGHTS**
- **GENERAL DESCRIPTION OF 10 CFR PART 52 AND ITAAC PROCESSES**
 - **Role of ITAAC in Part 52 Process**
 - **Relationship of ITAAC to Engineering Design Verification Process**
 - **Role of Quality Assurance Program**
 - **Sampling Based Construction Inspection Program**
 - **ITAAC Performance by Licensees and Verification by NRC**

– **ITAAC Closure Process**

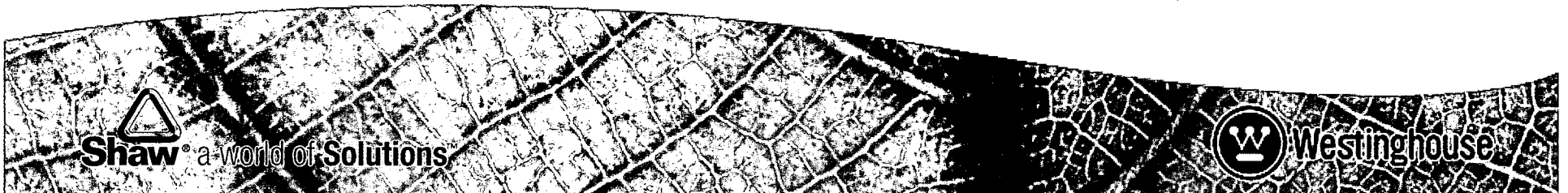
NEI 08-01 “INDUSTRY GUIDELINE FOR ITAAC CLOSURE PROCESS”

- **SCHEDULE CONSIDERATIONS FOR ITAAC-RELATED ACTIVITIES AND COORDINATION TO SUPPORT NRC INSPECTION PLANNING**
- **LICENSEE PROCESS FOR REVIEW AND PREPARATION OF ITAAC CLOSURE LETTERS**
- **GUIDANCE FOR OVERSIGHT OF ITAAC CLOSURE ACTIVITIES AND MAINTENANCE OF RECORDS**
- **STANDARD FORMAT FOR ITAAC CLOSURE PACKAGES**
- **GUIDANCE ON SUFFICIENT INFORMATION FOR ITAAC CLOSURE LETTERS**



NEI 08-01 “INDUSTRY GUIDELINE FOR ITAAC CLOSURE PROCESS”

- **GUIDANCE ON SUFFICIENT INFORMATION FOR 225 DAY NOTIFICATION
OF UNCOMPLETED ITAAC**
- **SPECIAL TOPICS:**
 1. **MAINTAINING THE VALIDITY OF ITAAC CONCLUSIONS POST-ITAAC COMPLETION**
 2. **CRITERIA/PROCESS FOR WITHDRAWAL OR UPDATE OF SECTION 52.99 ITAAC
COMPLETION NOTICES**
- **APPENDIX - LIST OF ITAAC CLOSURE LETTER EXAMPLES**
- **APPENDIX - EXAMPLE ITAAC CLOSURE LETTER TEMPLATE**



ONGOING/FURTHER NRC INTERACTIONS

- Industry, via NEI, providing comments on DG-1204
- Industry preparing revision to NEI 08-01
 - Addressing “ITAAC Maintenance”
 - Addressing Supplement Guidance
 - Better aligning with planned revision to NEI 08-02
“Problem Identification and Resolution for Nuclear Power Plants During Construction”



Schedule for Performance and Documentation Plans

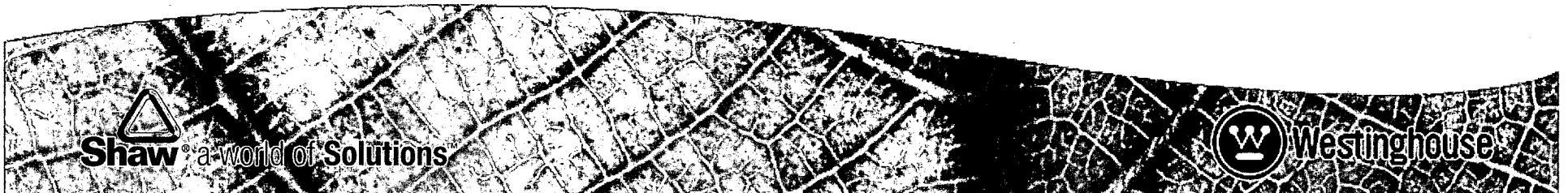
Thom Ray

AP1000 Licensing and Customer Interface



Schedule for Performance and Documentation Plans

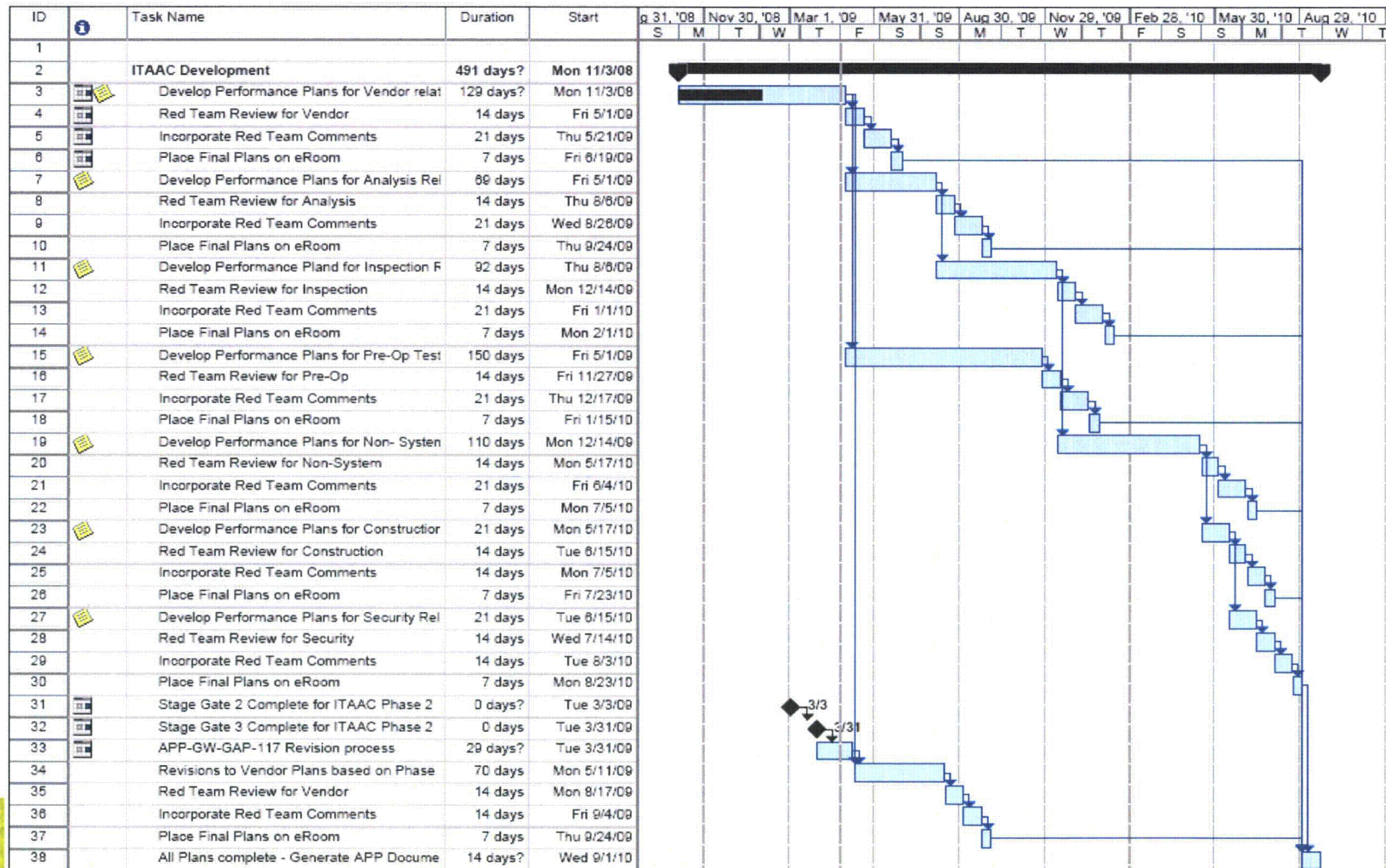
- **Binned ITAACs into workable Divisions**
 - **Ensure that we are developing the plans for the ITAACs in the correct order**
- **Schedule for Performance and Documentation Plans**



Binned ITAACs into workable Divisions

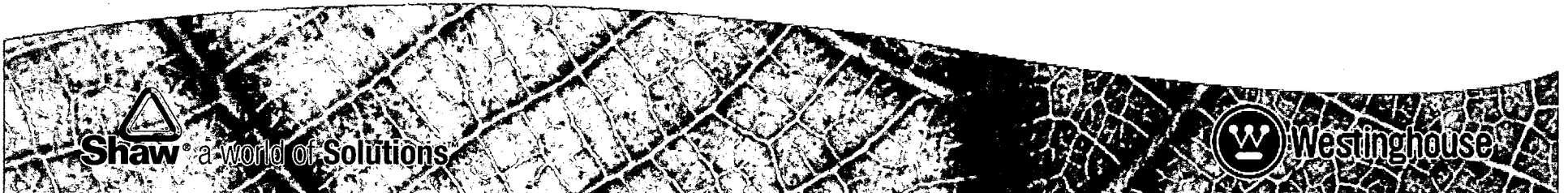
- **ITAACs categorized in six bins to allow an easier way to determine timing**
 - **Analyses (117 Acceptance criteria)**
 - **Pre-Operational Testing (300 Acceptance criteria)**
 - **Inspections (230 Acceptance criteria)**
 - **Construction Tests (31 Acceptance criteria)**
 - **Security Related (17 Acceptance criteria)**
 - **Non-System Based - e.g. Structures (111 Acceptance criteria)**

Schedule for Performance and Documentation Plans



Break Down for Each Section

- Vendor related: ITAACs starting 2009 to 2010
 - EQ Testing ITAAC
 - Charpy V-Notch
 - RCP Flywheel
 - Some ASME component related ITAACs
- Analysis: Examples Include some ADS, LBB, misc EQ, Cat II Seismic, System Specific, etc.
- Inspections: Examples include EQ walkdowns, ASME reconciliation, etc.
- Pre-Op Testing: Examples include Valve stroking, cold functional testing, etc.
- Non-System Based: Examples include Structural, HFE, Radiation Monitoring, etc.
- Construction: Hydrostatic Testing
- Security Related



Timing of ITAAC Closure Letters

Thom Ray

AP1000 Licensing and Customer Interface

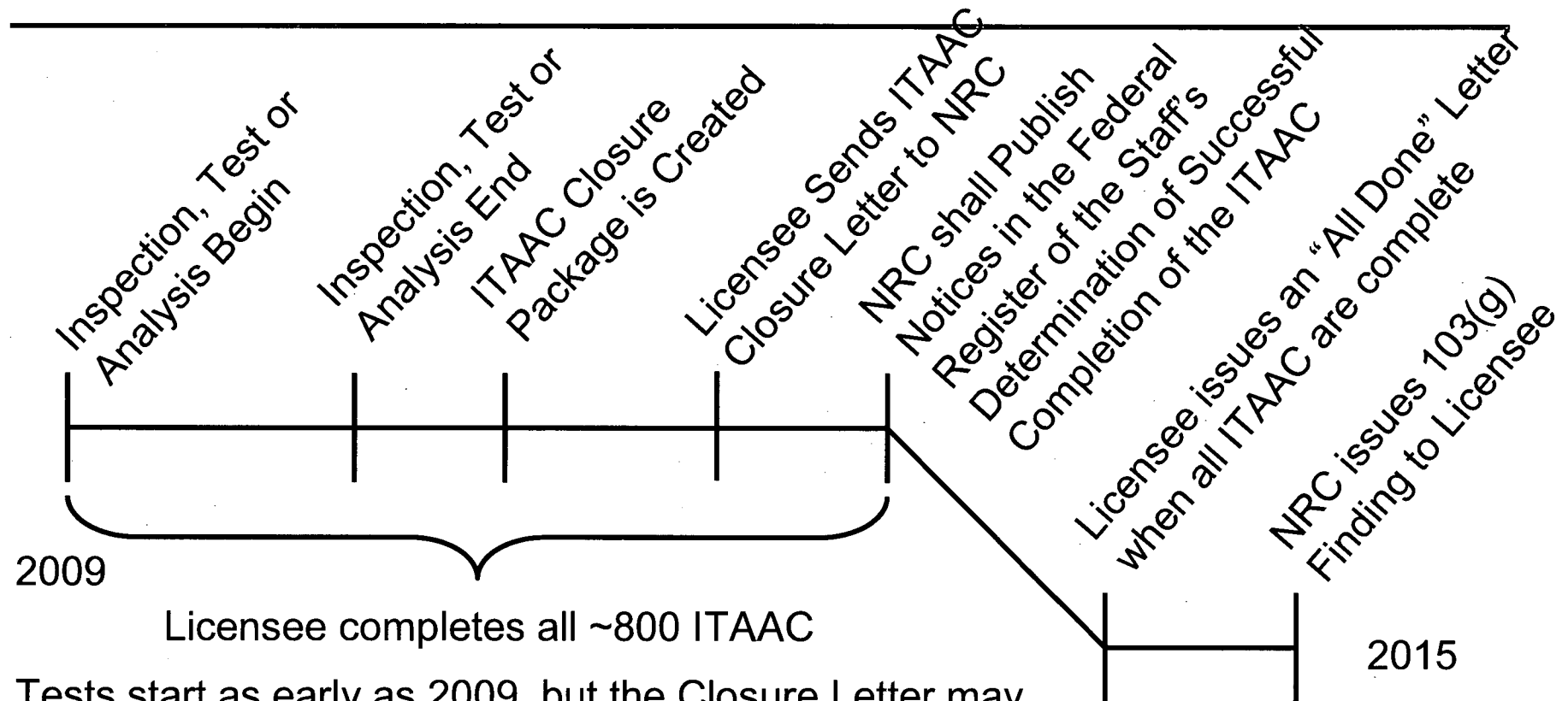


Timing of ITAAC Closure Letters

- ITAACs “Cradle to Grave”
- Example of EQ Testing “Cradle to Grave”
- ITAAC Closure Letter Timing
- Early Estimate of letters for a single site with 2 Units.



ITAACs Cradle to Grave



Licensee completes all ~800 ITAAC

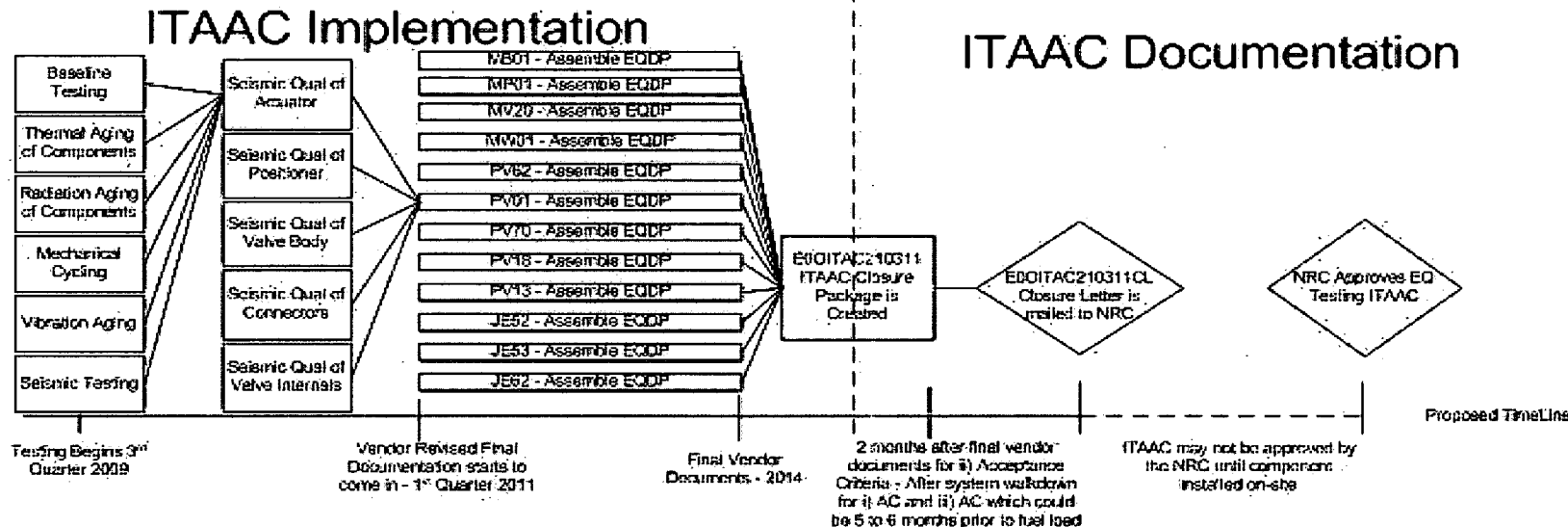
Tests start as early as 2009, but the Closure Letter may not be sent to the NRC until System Walkdown which would leave the ITAAC open for up to 6 years. (Example – EQ Type Testing starts in 2009, but the EQ walkdowns may not be done for certain systems until 2015.)

Licensee may load fuel in the Vessel

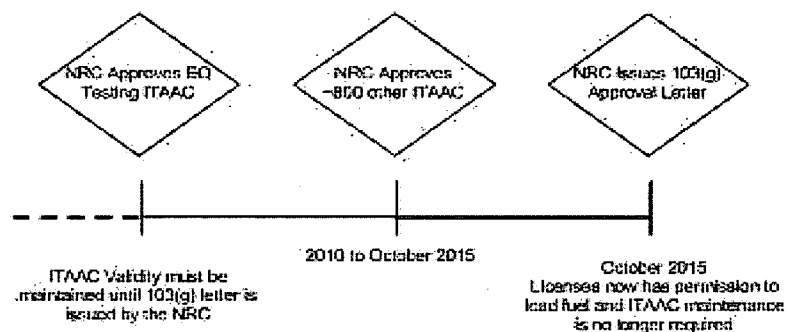
2015

EQ Testing ITAAC Cradle to Grave

- ITAAC Acceptance Criteria Wording: i) The seismic Category I equipment identified in Table 2.1.2-1 is located on the Nuclear Island.
 ii) A report exists and concludes that the seismic Category I equipment can withstand seismic design basis loads without loss of safety function.
 iii) A report exists and concludes that the as-installed equipment including anchorage is seismically bounded by the tested or analyzed conditions.



ITAAC Maintenance



ITAAC Closure Letters Timing

- **ITAAC Timing of 803 AP1000 ITAACs**
 - 45 ITAACs related to Engineering Analysis (HFE, D-RAP, etc.) and Security
 - Earlier in the process than Construction type and Pre-Op type
 - 127 ITAACs related to components
 - ASME requirements, EQ Testing, Testing at Vendor
 - Won't be closed until component on-site or in place
 - 330 Construction Type Tests
 - 300 ITAACs that require System Walkdowns to Complete
 - 30 ITAACs that require Hydrostatic System Tests
 - 301 Pre-Operational Tests
 - Tests that start after system turnover approximately 5 to 6 months before Fuel Load
- **Will require early and constant NRC review to remove end load of ITAAC Closure**

Letter Approvals



Early Estimate of ITAAC Closure Letters to the NRC

ITAAC Closure Letters to the NRC

