

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

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## SURVEILLANCE REPORT

On September 8-9, 1988, I periodically checked Groups 2 through 5 as they worked during the 2nd Workshop on Program Architecture Development at the Center in San Antonio.

The groups were formed as shown on the attached Tentative Group Assignments, although Bob Marshall was not included in Group 2 because of work he had with the Center's computer hardware supplier.

Each of the working groups addressed their assigned Regulations in accordance with TOP-001-02 and TOP-001-03 and used the "Program Architecture Development Agreements" (attached).

At the end of each day, Allen Whiting, Director, SE&I, assembled all the groups in the Center's Main Conference Room. Discussion of progress took place and difficulties in arriving at Elements of Proof and Regulatory Uncertainty were aired. Attached is an attendance roster, plus an agenda for the activities for September 8-9, 1988.

This Center Surveillance Report is confirmation that the groups addressed their assigned topics in the manner specified.



Bruce Mabrito, Director  
CNWRA Quality Assurance  
September 9, 1988

Attachments

*SEM*

AGENDA  
 2ND WORKSHOP ON PROGRAM ARCHITECTURE DEVELOPMENT  
 Center for Nuclear Waste Regulatory Analyses  
 San Antonio, Texas  
 September 8 and 9, 1988

THURSDAY, SEPTEMBER 8, 1988

<u>Time</u>	<u>Location</u>	<u>Topic</u>	<u>Participants</u>
0830-0900	Main Con. Rm.	Introduction, Purpose of Workshop Assignment of Regulatory Requirements	All
0900-0930	MCR	Review of TOP-001-02, DW4 Input Forms	All
0930-1200	MCR	Individual Groups Work on Elements of Proof (EOP Logical Hierarchies, EOP Text, and related fields in sequence) <u>OR</u> Regulatory Uncertainty (RU, RU Questions, Uncertainty Reduction Methods, etc. in sequence) for Assigned Reg. Reqmts.	Groups
1200-1300	Open	Lunch	All
1300-1630	MCR	Individual Groups Work on Elements of Proof or Regulatory Uncertainty Sequence for Assigned Reg. Reqmts.	Groups
1630-1700	MCR	Questions & Answers, Brief for following day	All

FRIDAY, SEPTEMBER 9, 1988

<u>Time</u>	<u>Location</u>	<u>Topic</u>	<u>Participants</u>
0830-0845	Main Con. Rm.	Brief on Plan-of-the-Day for Workshop, Assign Additional Reg. Requirements, as needed.	All
0845-1200	MCR	Individual Groups Work on Elements of Proof or Regulatory Uncertainty Sequence for Assigned Reg. Reqmts.	Groups
1200-1300	Open	Lunch	All
1300-1630	MCR	Individual Groups Work on Elements of Proof or Regulatory Uncertainty Sequence for Assigned Reg. Reqmts.	Groups
1630-1700	MCR	Questions & Answers, Brief on Upcoming Staff Actions/Assignments on PA	All
		Develop Element of Proof Logical Hierarchies, EOP Text, and related fields in sequence	

*BSM*

TENTATIVE GROUP ASSIGNMENTS  
2ND WORKSHOP ON PROGRAM ARCHITECTURE DEVELOPMENT

GROUP 1

Joseph O. Bunting	Rawley Johnson
Chip Cameron	Bruce Mabrito
Phil Altomare	Wes Patrick
John Latz	Ted Romine
Bob Adler	Allen Whiting
Steve Spector	

GROUP 2

10CFR60.113(a)(1)(1)(A) etc., Substantially Complete Containment (E4)  
10CFR60.113(a)(1)(1)(B) etc., Gradual Release of Radionuclides (E5)

Prasad Nair  
Bob Marshall  
Chuck Peterson  
Loren Lorig (ITASCA)

GROUP 3

10CFR60.113(a)(2) etc., Pre-emplacment Groundwater Travel Time (E6)

John Russell  
Adrian Brown  
Phil Justus  
Fred Ross  
Tom Sniff

GROUP 4

10CFR60.111(b)(1-3) etc., Design for Retrieval of Wastes (E2)  
10CFR60.122(a)(1) etc., Appropriate Combination of Favorable Conditions (E9)  
10CFR60.133(e), Design for Safe Operations and Reduce Rock Movement (E50)

John Hageman  
Joe Cooper  
Tilak Verma  
Barbara Everett  
Terje Brandschaug (ITASCA)

GROUP 5

10CFR60.112 etc., Overall System Performance Objective (E3)  
10CFR60. Protection Against Natural Phenomena & Envir. Cond. (E36)

<sup>131(b)(1)</sup>  
Dick Pierce  
Michelle Pape  
John Trapp  
Ruth Weiner  
Mark Logsdon

Notes:

1. Assignments are selected from "Set 1" of Subparts B and E of 10CFR60.
2. Additional assignments will be made as work progresses. The remainder of "Set 1" comprises items E10 through E33, the potentially adverse conditions.
3. Depending upon availability and skill-mix of staff, additional groups may be formed.
4. Each group will be, sequentially, developing inputs to the Program Architecture and reviewing the inputs of another group. In the latter function, the group will be a designated Program Architecture Review Committee (PARC) for the items being reviewed.
5. Group 1 will provide coordination and oversight of the workshop.

*LSM*

12 August 1988

Program Architecture Development Agreements

1. 10 CFR 60 will be the primary regulation from which elements of proof will be developed.
2. Regulations (including non-NRC regulations) which are referred to in the specific section of 10 CFR 60 will be included in the Regulatory Requirement if they are germane.
3. Regulatory requirements will be developed by aggregating portions of regulatory text in specific subject areas.
4. Regulations that are related to the area under consideration should be considered in the identification of uncertainties and be noted as Related Regulations, but should not be incorporated in the Regulatory Requirement if they do not meet the criteria in Items 1 and 2, above.
5. Elements of Proof will not be developed for any Regulatory Requirement that is not an action item for the NRC, although uncertainties generated by this requirement or its relationship to NRC's regulations will be developed.
6. Elements of Proof will not be developed and lodged in the EOP data field if Regulatory or Institutional Uncertainties exist. Postulated EOPs will be developed and lodged in the Uncertainty Reduction Method data field.
7. All Task leaders in the development of Regulatory Requirements and Elements of Proof will document the rationale for reaching their conclusions.
8. The changing or paraphrasing of regulations is not allowed in writing Regulatory Requirements.
9. Definitions will not be included in the Regulatory Requirements but will be available in the database.
10. Best available input is needed. If knowledge is not complete, identify the needed information and the process that is required to complete them at a later date.
11. If an exception is identified in the Regulatory Requirement, it should be shown but be truncated in the Elements of Proof.

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# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

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## MEETING ATTENDANCE

WORKSHOP FOR  
SUBJECT OF MEETING DEVELOPING ELEMENTS OF PROOF

DATE: Sept 8-9, 1988

LOCATION: CNWRA -- San Antonio

PERSON	ORGANIZATION	TITLE/FUNCTION	TELEPHONE NUMBER
Allen R. Whiting	CNWRA	Dir. SE&I	512-522-5156
CHARLES H PETERSON	US NRC	TRJ. MGR	301-492-0531
Phil Altomare	U.S. NRC	Section Leader Sp. Eng.	301-492-3400
PHILIP JUSTUS	U.S. NRC	Sect. Ldr. Geology-Geophysics	301-492-3460
John I. Russell	CNWRA	Manager, Geological Settings	512-522-5632
Ruth Weiner	CNWRA/WO	Reg. Analyst	703-979-9129
Teje Brandshang	ITASCA	Proj. Eng.	(612)-623-9599
Loren Lorig	ITASCA	Proj. Eng.	(612)-623-9599
John Hageman	CNWRA	RDCO- Mgr	512-522-5152
RICHARD N PIERCE	CNWRA	SPAE/T-MGR	512-522-5151
Mark Logsdon	NWC	MGR	303/399-9630
TOM SNIFF	NWC / WWL	Senior Engineer	303/226-3535
ADRIAN BROWN	NWC	ENGINEER	303/399-9630
TILAK VERMA	U.S. NRC	Sr Hydrogeologist	(301) 492-3465
LYLE A DAVIS	NWC / WWL	PM / SR ENG	(303) 226-3535
Fred Ross	NRC	Hydrogeologist	(301) 492-0527
Joe Bunting	NRC		301 492-3460
Bob Adla	CNWRA/WO	Direct. Workshop	703-979-9129
BLANCKE, JOHN	U.S. NRC	Director, TMS	512/522-5753
John TRAPP	U.S. NRC	Geologist	301-492-0509
Bruce MARRITO	CNWRA	Dir. QA	512/522-5149

