

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
Chip Cameron
Phil Altomare
John Latz
Bob Adler
Steve Spector

Rawley Johnson
Bruce Mabrito
Wes Patrick
Ted Romine
Allen Whiting

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-emplacement 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)

131(b)(1)
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.



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

SEM

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
<i>Allen R. Whiting</i>	<i>CNWRA</i>	<i>Dir. SE&I</i>	<i>512-522-5156</i>
<i>Charles H. Peterson</i>	<i>US NRC</i>	<i>Proj. Mgr</i>	<i>301-492-0531</i>
<i>Phil Altomare</i>	<i>U.S. NRC</i>	<i>Section Leader, Spec. Eng.</i>	<i>301-492-3400</i>
<i>Philip Justus</i>	<i>U.S. NRC</i>	<i>Sect. Ldr. Geology-Geophysics</i>	<i>301-492-3460</i>
<i>John I. Russell</i>	<i>CNWRA</i>	<i>Manager, Geologic Settings</i>	<i>512-522-5632</i>
<i>Ruth Weiner</i>	<i>CNWRA/WO</i>	<i>Reg. Analyst</i>	<i>703-979-9129</i>
<i>Teje Brandshagen</i>	<i>ITASCA</i>	<i>Proj. Eng.</i>	<i>(612)-623-9599</i>
<i>Loren Lorig</i>	<i>ITASCA</i>	<i>Proj. Eng.</i>	<i>(612)-623-9599</i>
<i>John Hageman</i>	<i>CNWRA</i>	<i>RDCO- Mgr</i>	<i>512-522-5152</i>
<i>Richard M. Pierce</i>	<i>CNWRA</i>	<i>SPAE/T-MGR</i>	<i>512-522-5151</i>
<i>Mark Logsdon</i>	<i>NWC</i>	<i>PM</i>	<i>303/399-9630</i>
<i>Tom Sniff</i>	<i>NWC / WWL</i>	<i>Senior Engineer</i>	<i>303/226-3535</i>
<i>Adrian Brown</i>	<i>NWC</i>	<i>ENGINEER</i>	<i>303/399-9630</i>
<i>Tilak Verma</i>	<i>U.S. NRC</i>	<i>Sr Hydrogeologist</i>	<i>(301) 492-3465</i>
<i>Lyle A Davis</i>	<i>NWC / WWL</i>	<i>PM / SR Eng</i>	<i>(303) 226-3535</i>
<i>Fred Ross</i>	<i>NRC</i>	<i>Hydrogeologist</i>	<i>(301) 492-0527</i>
<i>Joe Bunting</i>	<i>NRC</i>		<i>301 492-3460</i>
<i>Bob Adla</i>	<i>CNWRA/WO</i>	<i>Direct. Workshop</i>	<i>703-979 9129</i>
<i>Blaise Johnson</i>	<i>U.S. NRC</i>	<i>Director, TMS</i>	<i>512/522-5153</i>
<i>John Trapp</i>	<i>U.S. NRC</i>	<i>Geologist</i>	<i>301-492-0509</i>
<i>Bruce Mabrato</i>	<i>CNWRA</i>	<i>Dir. QA</i>	<i>512/522-5149</i>

LSM

SUBJECT OF MEETING WORKSHOP FOR
DEVELOPING ELEMENTS OF PROOF

LOCATION: CNWRA -- San Antonio

[illegible]