

*file 2*

5/19/79

TECHNICAL WORKING GROUP

1300

5/19/79

1. Agenda, 1300, 5/19/79 Technical Working Group
2. Radioactive Releases and RCS Profile
3. Top Priorities List
4. Action Items from 1300, 5/18/79 Technical Working Group
5. Task Lists

RCS Sample

5/18 @ 0900

1. 7.0 ± .1

2. 2.70 ± .20

3. 1.10 ± .10

4. 0.80 ± .05

5. 0.60 ± .05

6. 1.31m - 0.97

7. 1.73 - 0.62

8. 1.11 -

9. 1.31 - 3.10

10. 1.34 - 4.2

11. 1.56 - 7.2

12. 1.57 - 1.90

13. 1.46 - 2.5

A Bleed Tank

5/18 @ 0900

1. 8.2 ± .1

2. 5.76 ± .10

3. 3.8

4. 2.7

5. 1.4

6. 3.5

2006 359

A G E N D A

## TECHNICAL WORKING GROUP

1300

5/19/79

1. Radioactive Releases

- a. 748, 219, Auxiliary Building Fans - *see attached*
- b. Point Sources - *nothing new*
- c. Measurement of Radiation Level Inside Containment/  
Dome Monitor *see*

2. Plant Status

- a. RCS Profile - *see attached*
- b. Plant Operations Schedule
  - DHP 'A' Leak - *see report found leak*
  - Leak check of DHV-6B - *appears to be fixed*
  - Replacement of 'B' train FBE charcoal filters - *recommended*
  - RCS Sample Results - 0900 5/19
  - Sample Bleed Tank 'A' Results - 5/19
  - Pressurizer Sample - 5/19 *- table copy*

3. Analysis

- a. Reevaluation of existing recommendation to draw a bubble vs. solid operation - *in progress*
- b. Procedure for verification of Solid PZR during solid operations at 300 psi
- c. Reduction to 300 psig - increase in loss of pressure protection?
- d. Use of Long-Term Cooling System 'B' OTSG and method of tie-in *nothing new*

4. Construction StatusEstimated Completion

- |   |      |          |
|---|------|----------|
| a. Tank Farm  | 5/23 | } pretty |
| b. OTSG 'B' Long-Term Cooling                       | 5/20 |          |
| c. EPICOR (CAP-GUN II)                              | 5/23 | } 2 days |
| d. RCS Pressure/Volume Control Turnover for testing | 5/25 |          |
| e. Alternate Decay Heat Removal System tie-ins      | 6/20 |          |

<u>RELEASES</u>	<u>1100 (5/17/79)</u>	<u>1100 (5/18/79)</u>	<u>1100 (5/19/79)</u>
748	$1.49 \times 10^{-13}$	$6.4 \times 10^{-9}$	$5.2 \times 10^{-9}$
219	$4.4 \times 10^{-10}$	$2.81 \times 10^{-12}$	$6.4 \times 10^{-12}$
inlet	$1.6 \times 10^{-9}$	$5.29 \times 10^{-9}$	$1.3 \times 10^{-8}$
Train #1*	$6.6 \times 10^{-12}$	$7.65 \times 10^{-12}$	$7.4 \times 10^{-12}$
Train #2*	$8.44 \times 10^{-12}$	$8.8 \times 10^{-12}$	$1.2 \times 10^{-11}$
Train #3*	$3.8 \times 10^{-12}$	$4.76 \times 10^{-12}$	$9.4 \times 10^{-13}$
Train #4*	$3.66 \times 10^{-12}$	$7.24 \times 10^{-12}$	$1.4 \times 10^{-11}$

REACTOR COOLANT SYSTEM PROFILE  
PLANT STATUS

	<u>1100 (5/17/79)</u>		<u>1100 (5/18/79)</u>		<u>1100 (5/19/79)</u>	
	A	B	A	B	A	B
Th	169.5	170.6	169.3	170.9	168.0	169.9
Tc	157.7	114.5	156.9	97.7	157.2	116.2
Δ T	11.8	56.1	12.4	73.2	10.8	53.7
Tstm	155.7	130.1	155.9	129.1	154.4	132.2
FZR Level	Cal.	373	-	-	356	-
	DVI	-	-	-	-	-
	LT-3	-	-	-	225	-
R. C. Press.	386		PT-398 - 465		PT-398 - 373	
			PT-399 - 416		PT-399 - 331	
S/G Level	420"	96%	430"	96%	420"	96%
Turb. B/P	60%	Closed	60%	Closed	56%	Closed
I.C.T.	High	304.37	306.5		303.8	
	Avg.	194.16	193.4		192.7	
M.U. Temp.		218°	128°		128°	

2007 001

5/19/79

TOP PRIORITIES

Development of plan for management of radioactivity in Auxiliary and Containment Buildings.	A-1
Identify and isolate sources of iodine leakage.	A-1
Complete tank farm in Unit 2 spent fuel pool.	A-1
Completion of EPICOR (CAP-GUN II) System.	A-2
Development of plan for treatment of Auxiliary Building liquid waste.	B-1
Complete "B" OTSG cooling and modification (long-term).	C-1
Development of alternate system for pressure/volume control system.	C-1
Complete external valve pit for ADHR System.	C-2

CATEGORY

A	Control (i.e., containment) of radioactivity in Auxiliary and Containment Buildings.
B	Recovery of Auxiliary Building to near normal operations.
C	Place the plant in a cold condition suitable for depressurization with long-term pressure/volume control.

2007 002

ACTION ITEMS

TECHNICAL WORKING GROUP

1300

5/18/79

<u>Item</u>	<u>Action</u>
1. Pressurizer low level alarm on.	Herbein
2. Solid operation for leak and level check 5/22/79.	Herbein
3. Maintain 'B' OTSG Steam Bypass at 60%.	Herbein
4. Obtain pressurizer sample at 0900 5/19/79.	Herbein/ Hetrick
5. Evaluate obtaining a liquid sample of Auxiliary Building side of DHV-6B.	Rusche/ Hetrick
6. Check for leak tightness of DHV-6B using the water level in the BWST as the driving head.	Wilson/ Herbein/ Rusche
7. Evaluate source strength of 4OR reading on DHV-6B.	Rusche/ Wilson
8. Evaluate consequences of the "B" OTSG activity and the level of contamination in the flow piping of the new long-term cooling system.	Rusche/ Wilson
9. Weekly megger check of DHV-2 valve not to be cycled until further direction.	Herbein

2007 003

## PLANT OPERATION STAFF

Task	Description	Priority	Expected Completion	Status	Task Coord.
1.	Get recommendation on running OTSG "B".			Run pump on recirc. and develop plan for cutting into OTSG "B".	Kunder
2.	Obtain RCS sample (Primary letdown).	C-1	Take PZR sample 5/19.		Hetrick
3.	Obtain NEC approval (Tie-in approval only).	C-1		Need ECM's 170 RI, 272 RI.	Kunder/ Faulkner/ Seelinger
4.	SSRW pump, "C" repair.	C-1	Comp. by 5/20.		
5.	Decay Heat System.	C-1			Toole
6.	Remove water from "B" Fuel Pool.	B-1			Kunder/ Logan
7.	Isolate Unit #1 and #2 sample stations.		Need status.	Need new sample sink.	Limroth/ McGoey
8.	Training on Diesel.		In progress.	Selecting (6) primary operators.	Kunder
9.	Training on Decay Heat.	C-1	In progress.	Westinghouse will provide training plan.	Troffer/ Kunder/ Toole
10.	Sample AB/FHB charcoal beds.	B-1	AB "A" & "B" 5/19. FHB "A" 5/23.		Hetrick
11.	Grey diesel.	C-1	Complete	Both complete -	Toole
	White diesel.		Complete	staff training in progress.	Toole
12.	Move filters out of Aux. Bldg.	B-1		In progress.	
13.	Repair DW-P-4A.		Working 4A.	60% complete. Parts due 5/17.	
14.	Repair SW-P-1B.		Need new shaft.	Reqn. No. 201-1720. 30 day delivery.	Showlin
15.	CO-P-1B repair, check motor bearing.		No date.		Showlin

2007 004

PLANT OPERATION STAFF

Task	Description	Priority	Expected Completion	Status	Task Coord.
16.	Install self-cooling on condensate pump 1A.		Complete		Toole/ Gunn
17.	Determine how trash ended up in south end.		In progress.		Limroth
18.	Rebuild breaker for Cap-Gun.			CT installation	Showlin
19.	Maintain turbine sump empty.		Until completion of "B" OTSC flush.		Kunder/ Frederick

2007 005

## PLANT MODIFICATIONS

Task	Description	Priority	Expected Completion	Status	Task Coord.
WG-1	Install AB/FHB Filter System.	A-1	Punch list items to be completed.	System operational 5/10; complete 5/15.	Shubert
WG-2 (L-1)	Decon. water in AB using EPICOR ion exchange process.	A-1	Turn over 5/23.		Lacy/ Fricke
WG-6 (L-2)	Install storage vessels in Fuel Pool "A".	A-1	Turn over by 5/24.		Gibson
WG-11	Water Chemistry Lab for use with CAP-GUN (WG-2).	A-1	System complete by 5/23.		Tolle/ Rao
WG-12	Ventilation filtration system for decay heat pits.	A-1	Turn over 5/27.		Shubert
TS-3C	Develop complete package for long-term cooling OTSG "B".	C-1	Turn over 5/19.	Hydrostatic testing in progress.	Jordan/ Lanza
TS-6B	RCS pressure control system.	C-1	Turn over 5/23.	Piping behind schedule	Miller/ Lilly
TS-14	Shielding for decay heat pump.	C-2	Turn over 5/28.		Lieberman
TS-15	Westinghouse ADHR.	C-1	Turn over 6/21.		

2007 006



WESTINGHOUSE

Task	Description	Priority	Expected Completion	Status	Task Coord.
TS-15 (II.B)	ADHR Installation	C-1	6/21/79	See sub- divisions.	F. J. Serago
	ECM 109: ADHR piping and cabling	C-1	5/23		F. J. Serago
	ECM 122: ADHR skid off load and temp. shelter	C-1			R. Clark
	ECM 136: Elect. control trailer	C-1	5/25	Exp. delivery 5/19.	Serago/ Imagawa
	ECM 143: ADHR skid assembly	C-1	5/25		R. Clark
	ECM 182: FHE penetration	C-1	5/31		J. W. Meyer
	ECM 199: Valve pit	C-1	6/18		Serago/ Meyer
	ECM 212: Component cooling skid	C-1	5/25		R. Clark
	ECM 226: Wiring ADHR skid	C-1	5/25		R. Clark

2007 007

## TECHNICAL SUPPORT

Task	Description	Priority	Expected Completion	Status	Task Coord.
LS.2	Tech. Spec. and Surveillance and Bases Changes to those left deletions, additions.	1	?	Active: NRC interactions under negotiation,	L. W. Hardin
LS.3	Initial Reporting of Event.	1	5/15 to NRC.	Active.	R. A. Lengel
TM.23	Reactor Coolant System P/V Control.	1	5/23	Active.	Cobean
TM.30	Determine what BOP loads need backup electrical power.	1	Continuing.	Draft criteria document issued 4/24.	Capodanno/ Langenbach
TM.35	Long-term plant instrumentation requirements (criteria).	1	On hold.	Criteria docu. being revised.	Capodanno/ Langenbach
AA 61.	Update SAR.	1	?	Draft received.	B&W
AA 66.	D. How to maintain primary boron conc.	1	?	Active.	GPUSC/NPR
AA 69.	Define all plant mods needed for long-term operations.	1	?		Croneberger
AA 80.	Analytical and Tech. Planning Support for updated procedures (EP-32, etc.).	1	?	Continuing.	J. A. Daniel
AA 83.	Identify critical valves and instruments which may be damaged by high sump levels.	1	?	Active. Prelim. list available.	R. Long
AA 94.	Identify flow paths from the containment sump.	1	B&R investigating.	Active.	
AA 87.	Solid Pressurizer Analysis.	1	?	Active.	J. Moore
AA 96.	Boron concentration in RB sump 4/30 through 5/16.	1	?	Active.	J. Moore
TM.37	Installation of cartridge-type Demineralizer for clean-up of S.G. "B" secondary side.	1	ECM issued.	Revising design.	Capodanno/ Langenbach
AA 1.	Letdown Flow Analysis (continuing curve development).	1	Continuing.	Active.	Met-Ed Control Room
AA 71.	Determine requirements to perform sample analysis locally.	1	?	?	

2007-008

WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-1	Design, installation, and operation of EPICOR for Unit 2.	B-1	5/23	Remaining items are installation of CAP-GUN equipment and coating of the floor.	Snider/ Garman/ McCutcheon/ *Weller/ *Collins
L-2	Design, installation, and operation of emergency surge tanks (tank farm) in Unit 2 "A" Fuel Pool.	B-1	5/1	75% comp. piping in FHB. 30% comp. welds in AB pipe, FB pipe. Prefab. pipe ready for installation in AB. "B" train pour planned for 5/7; "A" train pour complete. 75% concrete slabs placed atop fuel pool.	Reinmann/ Snider/ *Weller/ *Collins
L-10	Pursue activities on processing Unit 1 water through CAP-GUN to both provide support to insure available freeboard for Unit 2 and to develop resin formulations for Unit 2 water.	A-1		In progress.	Garman/ *Weller
L-14	Evaluate waste gas vent header leakage problems and recommend fixes depending on results.	A-1		Working per J. Seelinger's waste gas plan of 4/17/79.	McConnell/ Arthur/ *Bland

\* NRC contact

2007 009

WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-36	Investigate the effects which the operations associated with reactor plant long-term cooldown will have on discharge to the waste systems. Related to L-6.	C-1		In progress.	McGoey/ Ross/ *Collins
L-42	Development recommendations and procedure for draining and disposition of RCBT water to support plant needs to make up with degassed demin. water.	C-1		.	McGoey/ Ross/ *Collins
L-44	Evaluate system designs with Technical functions and <u>W</u> to assess possible interference problems from standpoint of locations, operations, maintenance, etc.	B-1		Report being prepared; delayed by higher priority tasks.	Kraft/ *Weller
L-47	Resolve sample lab requirements versus capabilities to support EPICOR I and II operations.	B-1		Meeting held 5/1/79; resolution in progress.	Kraft
G-1	Install AB/FHB off-gas filter system to back-up plant system.	A-1		Phases I, II, and III design complete. System description and start-up procedures are complete. Four (4) fans are operable, 3 or 4 are running.	Montgomery Itchner/ *Collins

\* NRC contact

2007 010

## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-5	Change out AB/FHB HVAC vent filter train charcoal bed.	A-1		"A" & "B" trains of the AB filters and "A" train of FHB filters removed and replaced, units back in service. FHB "B" train in change-out scheduled for 5/17. Deluge systems secured on all renewed filter trains. Spent filter tray removal to storage completed.	McConnell/ Edwards/ *Weller
G-31	Determine air flow paths in AB/FHB.	A-1		Operating matrix developed and available.	Nawaz/ Itschner/ Robison/ *Weller
G-32	Determine that there are no unidentified air flow paths.	A-1		Examination of plant status/configuration underway. First cust. review complete	Nawaz/ Itschner/ Robison/ *Darrett
	* NRC contact				

2007 011

WASTE MANAGEMENT GROUP.

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-38	Develop plan for ventilation system operation based on fan/filter train status and on door openings and other plant operation evaluations.	B-1		Need identified to set up a plan. Control/advise on local and system ventilation practice.	Itschner/ *Stoddart
G-40	Criteria for and control tasks resulting in the evolution of contaminants that could poison charcoal filters.	A-1		20 "Red Devil" type local filtration systems on order to control welding fumes.	*Collins
L-3	Determination of leakage paths and flow rates in Unit 2 Aux. Bldg. and FHB and repair of leaks where possible. Plant has leakage ID and Status Board in Unit 2 Control Room. Pursue Plant activities associated with this.	2		Plant staff following.	Kraft/ Arthur/ *Cwalina
L-12	High level solid waste disposal investigation.	B-2		In progress.	Pastor/ Edwards/ *Weller/ *Collins
L-26	Perform assessment of the value and need for a closed circuit TV Monitor to provide remote indicator of radwaste panel data.	A-2		Price proposal being assessed versus decon. schedule of Aux. Bldg.	Kraft/ Lutz/ *Stoddart
L-27	Develop sampling plan to assess AB waste for transuranic content. Insure that Met-Ed Ops. coordinate sample requirements with ORNL to insure satisfactory analysis results.	B-2		Identified 4 samples, agreed on 3. Agreement reached on using previously taken samples from sump and bleed tanks; additional samples to be taken.	Passell/ Williams/ *Collins
	* NRC contact				

2007 012

## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-29	Investigate reported water collection in the "B" fuel pool obtain samples and make plans for disposition. Also investigate the preoperational condition of the fuel pool from a leakage standpoint.	B-2		Water from Unit 2 const. Sample needed.	Williams/ *Barrett
L-33	Develop a plan for tying in the tank farm to EPICOR 2.	B-2		System criteria sent to B&R on 5/1/79.	Reinmann/ Snider/ *Weller/ *Collins
L-35	Investigate the need for a design and construction task to erect a barrier between the Unit 1 and Unit 2 Fuel Handling Bldg. to enable Unit 1 operations with Unit 2 in processing Mode.	B-2		Alternate design Unit 1 side to be submitted 4/27/79.	McConnell/ Williams/ *Barrett
L-37	Develop a plan for removing all radioactive gases from the systems in the AB and FHB.	B-2		Requires completion of L-14.	McConnell/ *Collins
G-7	Condenser vacuum pump discharge filter system.	A-2		Filter operational. Investigating operating criteria. Will evaluate DF.	Robison/ Montgomery, *Collins
G-30	Reactor Purge System Charcoal Filter Sample.	A-2		RB purge filter sample all ready for analysis. Scheduled week of 5/20.	McConnell/ *Collins
G-33	Desensitize AB and FHB Filter Monitors.	A-2		Preliminary investigation - desensitization infeasible.	Sieg/ *Stoddart
	* NRC contact				

2007 013

## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-39	Develop and assess back-up gas filtration scheme to cross-connect the Auxillary Building filters to the RB purge filters.	B-2		B&R has developed a concept. Second estimate scheduled shows 14 day + schedule. Heisman Co. has developed drawings. Exposure schedule cost appears too high. Contingency plan is to open roughing filter manway if emergency ventilation of Auxillary Building is needed.	McConnell/ *Lee
G-41	Develop filter management strategy.	B-2		Standard procedures to sample charcoal systems in review.	McConnell
G-42	Develop a program to assess and monitor I release sources.	B-2		Four-part approach: <ol style="list-style-type: none"> <li>1. B&amp;R to complete review of release candidates.</li> <li>2. Pursue a tracer program to find leak.</li> <li>3. Pursue an air monitoring program with SAI/EPRI to plot I levels.</li> <li>4. Review local ventilation conditions to verify flow distributions.</li> </ol>	McConnell/ McGoey/ Montgomery SAI: Cline/ Pelittier Vollegue

\* NRC contact

2007 014



WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-11	Investigate/develop process for eliminating Unit 2 water in RCBT's. Process planning for Units 1 and 2. Design (conceptually) a waste processing system for Unit 2 High Level Liquid Wastes.	B-3		Proposal to be received from chem-nuclear 5/4/79.	Snider/ *Weller
L-16	Low-level waste (paper, rags, wood, etc.) disposal.	B-3		In progress; second compactor ordered.	Edwards/ *Weller/ *Collins
L-17	Develop CAP-GUN 3 System.	B-3		Initial planning only. Detail design scheduled to start 4/25/79.	Snider/ *Weller/ *Collins
L-20	Obtain a level measurement and a sample of water from the RB sump and basement.	B-3		Measurement using Heise gage being explored.	Ross/ *Cwalina
L-22	Develop a plan for long-term cleanup to provide access to Auxiliary Bldg. for restoration activities.	B-3			Open/ *Collins
L-30	Develop plan for radiation survey in Auxiliary and Fuel Handling Bldg.	B-3			Open/ *Stoddart
G-15	Emergency RB Gas Purge Cleanup System.	A-3		On hold; no plan to implement.	Open/ *Collins
G-29	FHB Airlock.	B-3		Airlock unnecessary at this time.	Inactive/ *Barrett
	* NRC contact				

2007 015