

5/18/79

file
TECHNICAL WORKING GROUP
1300 5/18/79

1. Agenda, 1300, 5/18/79 Technical Working Group
2. Radioactive Releases and RCS Profile
3. Top Priorities List
4. Action Items from 1300, 5/17/79, Technical Working Group
5. Task Lists

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TECHNICAL WORKING GROUP

1300

5/19/79

1. Radioactive Releases

- a. 748, 219, Auxiliary Building Fans - See Status Sheet
- b. Point Sources - see memo
- c. Dome Radiation Monitor - nothing new
- d. Measurement of Radiation Level Inside Containment - see memo

2. Plant Status

- a. RCS Profile - see status sheet
- b. Plant Operations Schedule - cruise down to 300# in Bubble
 DHP 'A' Leak - pump fixed; schedule the weekend
 Replacement of 'B' train FHB charcoal filters (filters have not yet arrived from AISA; Carbon has been tested)
 Obtain RCS Sample - 0900 5/18 - taken today
 Sample Bleed Tank 'A' - IR contact some
 Pressurizer Sample - 5/19 OK @ 9 AM
 Status of vent cap installation - complete

also taken today

3. DHV-2 Operation

taking weekly resistance checks - verified that leakage paths to RB at minimum.

4. Analysis

- a. Reevaluation of existing recommendation to draw a bubble vs. solid operation agree on 300# bubble operation
- b. Procedure for verification of Solid PZR during solid operations at 300 psi intend to go solid every 5 days!
- c. Reduction to 300 psig - increase in loss of pressure protection?
- d. Use of Long-Term Cooling System 'B' OTSG

5. Construction Status

Estimated Completion

- a. Tank Farm 5/23
- b. OTSG 'B' Long-Term Cooling flush + hydro are 5/23 complete
- c. EPICOR (CAP-GUN II) now in hydro 5/23 Charcoal loaded
- d. RCS Pressure/Volume Control Turnover for testing electrical problems (5/25) - tough to meet
- e. Auxiliary Diesel Generator Auto Start Complete
- f. Alternate Decay Heat Removal System tie-ins (6/20)

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slipped one month in one month

<u>RELEASES</u>	<u>1100 (5/16/79)</u>	<u>1100 (5/17/79)</u>	<u>1100 (5/18/79)</u>
748	3.4×10^{-9}	1.49×10^{-13}	6.4×10^{-9}
219	1.4×10^{-10}	4.4×10^{-10}	2.81×10^{-12}
Inlet	3.72×10^{-10}	1.6×10^{-9}	5.29×10^{-9}
Train #1*	2.71×10^{-12}	6.6×10^{-12}	7.65×10^{-12}
Train #2*	$< 1.79 \times 10^{-13}$	8.44×10^{-12}	8.8×10^{-12}
Train #3*	6.90×10^{-12}	3.8×10^{-12}	4.76×10^{-12}
Train #4*	3.37×10^{-12}	3.66×10^{-12}	7.24×10^{-12}

REACTOR COOLANT SYSTEM PROFILE

PLANT STATUS

	<u>1100 (5/16/79)</u>		<u>1100 (5/17/79)</u>		<u>1100 (5/18/79)</u>	
	A	B	A	B	A	B
Th	166.9	168.3	169.5	170.6	169.3	170.9
Tc	155.9	99.1	157.7	114.5	156.9	97.7
ΔT	11.0	69.2	11.8	56.1	12.4	73.2
Tstm	153.2	122.4	155.7	130.1	155.9	129.1
PZR Level	Cal.	Solid	373			
	DVM	-	-			
	LT-3	-	-			
R. C. Press.		446	386		PT-398 = 465 *	
S/G Level	415"	95%	420"	96%	PT-399 = 416	430" 96%
Turb. B/P	69%	Closed	60%	Closed	60%	Closed
I.C.T.	High	303.9	304.37		306.5	
	Avg.	Not Available	194.16		193.4	
M.U. Temp.		127°	128°		128°	

* Best

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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.

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ACTION ITEMS

TECHNICAL WORKING GROUP

1300

5/17/79

<u>Item</u>	<u>Action</u>
1. Written guidance for controlled depressurization to 300 psi range.	Wilson/ GPU
2. Evaluate the need for pressurizer sampling analysis scheduled for 5/19/79.	Wilson/ BSW
3. Reevaluate the curve supplied for throttling steam bypass based upon present temperature and pressure conditions.	Wilson/ GPU
4. Make arrangements to install the vent stack cap during the afternoon of 5/18/79.	Hirst/ Herbein/ Rusche
5. Hold until further direction, DHR "A" Leak Test.	Herbein
6. Obtain Bleed Tank "A" Sample with the RCS Sample scheduled for 0900, 5/18/79, if possible.	Herbein
7. Per BSW recommendation, wait for next RCS Sample results before changing 2000 ppm Boron Makeup Guidance.	Herbein

NOTE: Containment water level corrected to 288.6'. Height of water = 6'.

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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	5/18		Herrick
3.	Obtain MEC 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		Start 5/18	Kunder/ Logan
7.	Isolate Unit #1 and #2 sample stations.		Need status.	Need new sample sink.	Limroth/ McGoey
8.	Training on Diesel.			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.		Herrick
11.	Grey diesel.	C-1	5/17	Both complete	Toole
	White diesel.		5/17	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	Shovlin
15.	CO-P-1B repair, check motor bearing.		No date.		Shovlin

PLANT OPERATION STAFF

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

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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.		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.		

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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
TN.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/MPR
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. Danie
AA 83.	Identify critical valves and instruments which may be damaged by high sump levels.	1	?	Active. Prelim. list available.	R. Long
AA 84.	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	?	?	

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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

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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 W 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

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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 cost review complete	Nawaz/ Itschner/ Robison/ *Barrett
	* NRC contact				

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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/ Edward/ *Collins/ *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

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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				

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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 Auxiliary 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 Auxiliary 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"> 1. B&R to complete review of release candidates. 2. Pursue a tracer program to find leak. 3. Pursue an air monitoring program with SAI/EPRI to plot I levels. 4. Review local ventilation conditions to verify flow distributions. 	McConnell/ McGoey/ Montgomery/ SAI: Cline/ Pelittie/ Vollegue

* NRC contact

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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				

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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	5/18		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: FHB 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			R. Clark
	ECM 226: Wiring ADHR skid	C-1	5/25		R. Clark

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