

✓ *file*
TECHNICAL WORKING GROUP

5/21/79

MEETING WILL BE 5/21/79 @ 1700 HRS.

1. Agenda, 5/21/79 Technical Working Group
2. Radioactive Releases and RCS Profile
3. Top Priorities List
4. Action Items from 1300, 5/19/79 Technical Working Group
5. Task Lists

2007 016

A G E N D A

TECHNICAL WORKING GROUP

1700

5/21/79

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 " "

2. Plant Status

- a. RCS Profile *see attached*
- b. Plant Operations Schedule
 - DHP "A" Leak *See memo*
 - Replacement of "B" train FHB charcoal filters *not rec'd yet*
 - Pressurizer Sample Results - 5/19 *will get results 5/22*
 - Pressurizer Solid - 5/22 *OK after procedure review*

3. Analysis

- a. Reevaluation of existing recommendation to draw a bubble vs. solid operation *no 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 " "
- e. Reevaluate the curve supplied for throttling steam bypass based upon present temperature and pressure conditions. " "

4. Construction StatusEstimated Completion

- | | | |
|---|------|-------------------|
| a. Tank Farm (Zero Leak Testing) | 5/23 | } <i>See memo</i> |
| b. OTSG "B" Long-Term Cooling | 5/20 | |
| c. EPICOR (CAP-GUN II) | 5/23 | |
| 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 (5/19/79)</u>	<u>1100 (5/20/79)</u>	<u>1700 (5/21/79)</u>
748	5.2×10^{-9}	4.8×10^{-9}	8.51×10^{-9}
219	6.4×10^{-12}	7.4×10^{-11}	9.45×10^{-11}
Inlet	1.3×10^{-8}	9.2×10^{-9}	4.77×10^{-9}
Train #1*	7.4×10^{-12}	9.0×10^{-12}	9.02×10^{-12}
Train #2*	1.2×10^{-11}	6.6×10^{-12}	1.03×10^{-11}
Train #3*	9.4×10^{-13}	1.1×10^{-12}	1.02×10^{-11}
Train #4*	1.4×10^{-11}	6.1×10^{-12}	4.67×10^{-13}

REACTOR COOLANT SYSTEM PROFILE
PLANT STATUS

	<u>1100 (5/19/79)</u>		<u>1100 (5/20/79)</u>		<u>1700 (5/21/79)</u>	
	A	B	A	B	A	B
Th	168.0	169.9	169.2	170.2	168.3	170.1
Tc	157.2	116.2	156.5	102.4	158.8	100.2
ΔT	10.8	53.7	12.7	67.8	9.5	69.9
Tstm	154.4	132.2	155.6	131.0	154.8	129.7
PZR Level	Cal.	356	-	-	373	-
	DVM	-	-	-	-	-
	LT-3	225	-	-	-	-
R.C. Press.	PT-398	373	PT-398	286	PT-398	276
	PT-399	331	PT-399	233	PT-399	215
					Recorder	285
S/G Level	420"	96%	410"	95%	430"	99%
Turb. B/P	56%	Closed	57%	Closed	57%	Closed
I.C.T.	High	303.8	299.7		303.5	
	Avg.	192.7	194.9		192.8	
M.U. Temp.		128	128		128	

2007 018

5/21/79

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 019

5/21/79

ACTION ITEMS

TECHNICAL WORKING GROUP

1300

5/19/79

<u>Item</u>	<u>Action</u>
1. Evaluate the ability to flush primary sample lines to reduce radiation levels.	Rusche
2. Review proposal for zero leakage testing of the tank farm after nozzle installation.	Rusche/ Wilson/ Hirst
3. Evaluate relationship with water movement and radiation readings during the evening of 5/18.	Rusche
4. Develop a plot and evaluate dome monitor readings.	Rusche
5. Reevaluate the curve supplied for throttling steam bypass based upon present temperature and pressure conditions.	Wilson
6. Revise guidance to maintain 3000 ppm boron concentration in makeup based upon current A&B bleed tanks and the 5/18 0900 primary sample results.	Wilson
7. Evaluate pressure decrease to 275-300# using 398 as a prime indicator such that pressure indication on 399 is maintained \geq 200#.	GPU
8. Review solid operations vs. bubble after we go solid for level check 5/22. When in a solid condition, stay solid until there is a need to change.	Herbein
9. Present summary description of radioactive liquid waste processing plan and waste gas leak evaluation to the 5/22 @ 0900 Technical Working Group Meeting.	Rusche
10. Retain present bypass valve tracking as per guidance in Wilson to Kunder memo of 5/14/79.	Herbein
11. Evaluate need for weekly containment level measurements.	All
12. Ensure an integrated startup test program for the EPICOR II is performed by R. Toole.	Herbein
13. Provide detailed schedule status and update to Task Management.	Westinghouse

2007 020

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. Hard
LS.3	Initial Reporting of Event.	1	5/15 to NRC.	Active.	R. A. Lenge
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. 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 97.	Solid Pressurizer Analysis.	1	?	Active.	J. Moore
AA 96.	Boron concentration in RB sump 4/20 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 Ro
AA 71.	Determine requirements to perform sample analysis locally.	1	?		

7007 021

TECHNICAL SUPPORT

Task	Description	Priority	Expected Completion	Status	Task Coord.
LS 5	Continued reporting to the NRC	1	On-Going	Last report sent 5/16/79	L. Harding
LS 8	Met-Ed Surveillance	1	On-Going	To be done on 6/14/79	L. Harding
LS 14	Investigate reportability of radioactive material dumping in the landfill area of TMI of 5/16/79.	1		In Progress	L. Harding
LS 15	Assist in the development of Radiological Effluent-Tech Specs	1		In Progress	L. Harding
LS 16	Investigate obtaining a permit to dump in the landfill area.			In Progress	L. Harding

0007 022

5/21/79

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.	Reviewing schedule for improvement.	

007 023

TS-15

WESTINGHOUSE ADHRS DAILY STATUS

	<u>Schedule Date</u>	<u>Latest Projection</u>	<u>Status</u>
Westinghouse Engineering Design Complete	5/23	5/26	90% Complete
Valve Pit Design Complete (B&R)	5/25	5/25	
Assemble ADHR Skid	5/25	5/25	Mech. 95% Complete Elect. 45% Complete
Assemble CCW Skid	5/25	5/25	Mech. 95% Complete Elect. 50% Complete
Receive Control Trailer	5/19	5/19	On-Site
Install Panels & MCC in Trailer	5/25	5/25	MCC's on-site
Install Isolation Box	5/22	5/20	Comp.
Start Core Boring (12 holes)	5/23	5/22	
Complete Core Boring (12 holes)	5/26	5/25	
Complete Installation of Pipe Penetration Assemblies	5/31	5/31	
Cut 12" Header and Weld Weldolet	6/5	6/5	
Cut 10" Header and Weld Weldolet: Channel A	6/9	6/9	
Cut 10" Header and Weld Weldolet	6/12	6/12	
Complete Fit Up and Welding of Inside Piping (Total of 42 Field Welds)	6/16	6/16	First fit made up 5/21
Complete Fit Up & Welding of Outside Piping (Total of 15 Field Welds)	6/16	6/16	Excavation and support structure comp.

COMMENTS

Best estimate for first tie in to the 12" suction line weldolet is 6/5/79.

0007 024

5/21/79

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. Sera
	ECM 109: ADHR piping and cabling	C-1	5/23		F. J. Sera
	ECM 122: ADHR skid off load and temp. shelter	C-1			R. Clark
	ECM 136: Elect. control trailer	C-1	5/25	Exp. delivery 5/10.	Serago/ Imagawa
	ECM 143: ADHR skid assembly	C-1	5/25		R. Clark
	ECM 182: FHB penetration	C-1	5/31		J. W. Maye
	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
	<u>NOTE:</u> Westinghouse will submit a revised activity list by 5/21/79.				

2007.025

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 026

5/21/79

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.	Montgomer Itchner/ *Collins

* WRC contact

2007 027

5/21/79

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/ Itchner/ 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/ Itchner/ Robison/ *Barrett
	* NRC contact				

007 028

WASTE MANAGEMENT GROUP.

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-33	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.	Itchner/ *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 Mat-Ed Cps. 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

2107 029

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/ Montgomer *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				

007 030

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. Haisman 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/ Montgome: SAI: Cline/ Pelitti Vollegu:

* NRC contact

007 031

5/21/79

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/ *Barratt
	*_NRC contact				

2007 032

PLANT OPERATION STAFF

Task	Description	Priority	Expected Completion	Status	Task Coord.
1.	Plant Status.	A-1	Depressurizing to 275 psig.		
2.	Get recommendation on running OTSG "B".	C-1		Run pump on recir. and develop plan for cutting into OTSG "B".	Kunder
3.	Obtain RCS sample (Primary letdown).	C-1	PZR sample obtained 5/19	None scheduled.	Hetrick
4.	SSRW pump "C" repair.	C-1	Comp. by 5/20.	In progress.	
5.	Decay Heat System.	C-1	Repair "A" leaks	Hydro to follow.	Toole
6.	Remove water from "B" Fuel Pool.	B-1	On Hold.		Kunder/ Logan
7.	Isolate Unit #1 and #2 sample stations.		Need status.	Need new sample sink.	Limroth/ McGoey
8.	Training on Decay Heat.	C-1	In progress.	Westinghouse will provide training plan.	Troffer/ Kunder/ Toole
9.	Sample AB/FHB charcoal beds.	B-1	FHB "A" follows "B" changeout.		Hetrick
10.	Repair DW-P-4A.		Comp. by 5/23.	60% complete.	
11.	Repair SW-P-1B.		Need new shaft.	Reqn. No. 201-1720. 30-day delivery.	Shovlin
12.	CO-P-1B repair, check motor bearing.		Complete by 5/25	Motor to Phila. for repair.	Shovlin
13.	Vac pump exhaust filter.			Run to determine AB H&V effects.	Kunder
14.	Rebuild breaker for Cap-Gun.			CT installattion	Shovlin

0007 033 --

PLANT OPERATION STAFF

Task	Description	Priority	Expected Completion	Status	Task Coord.
15.	Maintain turbine sump empty.		Until completion of "B" OTSG flush.		Kunder/ Frederick
16.	N ₂ blanket FW heaters.				Kunder

2007 034