

To R. Wallace

(2) J Collins

5/29/79

TECHNICAL WORKING GROUP

0900

5/29/79

1. Agenda, 5/29/79 Technical Working Group
2. Radioactive Releases and RCS Profile
3. Top Priorities List
4. Action Items Technical Working Group 0900, 5/25/79 and 0900, 5/26/79
5. Task Lists

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A G E N D A

TECHNICAL WORKING GROUP

0900 5/29/79

Better calibration on
instruments in #13/#14.

1. Radioactive Releases

- a. 748, 219, Auxiliary Building Fans
- b. Point Sources - Leaks program continuing
- c. Dome Monitor - Containment Survey *Done* *possibly today*
- d. Replacement of "B" Train FHB Charcoal Filters

F113 to train operable
but to leading tray -
it will be required.
D. Harber from Portau
here for one wk
assignment to resolve.

2. Plant Status

- a. -RCS Profile *What solid 2000 psi 5/29*
- b. Containment Water Level *2000 psi*
- Pressure Check - Coolers
- Data Check - Level Measurement
- Elect Check - Critical Equip.
- c. Plant Operations Schedule.
- Pressurizer Solid Operation *275 psi*
325 psi
- ✓ Samples - PH Adjustment

444 PRE. LEVEL
TEMP.
NEED REVISIT HEAT
BALANCE
List of Electrical comp.
is decay heat
procedure being
prepared to reduce
it.

3. Analysis

- a. Reevaluation of existing recommendation to draw a bubble vs. solid operation. *NEED MORE*
- b. Reduction to 300 psig - Increase in loss of pressure protection?
- c. Reevaluate the curve supplied for throttling steam bypass based upon present temperature and pressure conditions. *see - form.*

4. Preoperational Testing

- a. Tank Farm (Zero Leak Testing) - *INSTALLING TWO NEW BOOSTERS.*
- b. OTSG "B" Long-Term Cooling
- c. EPICOR (CAP-GUN II) - *ONE MORE RUN TO 8000*

see of 3-3-79
may have to use
500 psig - NEED
additional provisions
see 6-6-79 (2500 psi)
see 6-6-79 (2500 psi)

APERTURE
ON EPICOR
pressure monitor
contaminated

* RC SYS LEAKAGE THE MOST LIKELY SOURCE

Leakage from Contain.
REPORT ON LOSS
DOCUMENT.

15-3
15/20

5. <u>Construction Status</u>	<u>Estimated Completion</u>
a. RCS Pressure/Volume Control Turnover for Testing	6/1
b. Alternate Decay Heat Removal System Tie-ins	6/16

TUES 4
 NEXT Fri @ 10:00 AM
 1.

1500
 7.0 x 10⁷ cc
 60 x 10⁴
 10⁶

5/29/79

<u>RELEASES</u>	<u>0500 (5/27/79)</u>	<u>0500 (5/28/79)</u>	<u>0500 (5/29/79)</u>
748	9.7×10^{-9}	9.8×10^{-9}	1.4×10^{-8}
219	---	---	---
Inlet	1.8×10^{-9}	9.8×10^{-10}	3.9×10^{-10}
Train #1*	9.0×10^{-12}	9.7×10^{-10}	5.9×10^{-12}
Train #2*	1.0×10^{-11}	4.0×10^{-12}	3.8×10^{-11}
Train #3*	7.3×10^{-12}	5.7×10^{-12}	3.8×10^{-12}
Train #4*	1.5×10^{-13}	1.4×10^{-13}	1.0×10^{-12}

REACTOR COOLANT SYSTEM PROFILEPLANT STATUS

	<u>0500 (5/27/79)</u>		<u>0500 (5/28/79)</u>		<u>0500 (5/29/79)</u>	
	A	B	A	B	A	B
Th	164.8	166.3	163.4	165.6	163.7	165.3
Tc	154.0	98.5	153.3	100.4	152.4	97.4
ΔT	10.8	67.8	10.1	65.2	11.3	67.9
Tstm	151.4	125.8	150.5	126.7	150.5	127.4
PZR Level Cal.	414"		369"		SOLID	
DVM	-		-		--	
R.C. Press.	Heise - - DVM - 300		Heise - - DVM - 289		Heise - - DVM - 455	
S/G Level	414"	96%	430"	96%	411"	96%
Turb. B/P	56%	Closed	55%	Closed	55%	Closed
I.C.T. High	297		295.3		291.5	
Avg.	189.5		188.8		187.9	
M.U. Temp.	122		122		121	

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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 EIPCOR (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.

ACTION ITEMS

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0900

5/25/79

<u>Item</u>	<u>Action</u>
1. Install pressure indication between DHV-3 and the building wall.	Herbein
2. Verify containment level reading and evaluate the possible air gap in sensing line.	Herbein/ Wilson
3. Evaluate megger readings on DHV-2 to obtain additional information concerning actual containment building level.	Herbein/ Wilson
4. Evaluate operationally testing the reactor building coolers for possible leakage.	Herbein
5. Modify procedure such that a complete lineup for containment level check is accomplished with the exception of DHV-6B and provide minimum daily level checks. Provide reading early on second shift 5/25/79.	Wilson/ Herbein
6. Continue pressurizer bubble mode operation under pressure plant status until 1:30 - 5/25/79.	Herbein
7. Evaluate evaporative cooling system surge tank as a means of providing additional information concerning R.B. leakage.	Herbein
8. Evaluate electrical outlets/components as a possible source of level indication and determine the next critical electrical components above DHV-1 and 171.	Wilson/ Cobean
9. Evaluate the options of water movement from containment and pressure relief in the form of vent or purge operation of the containment for 1330 5/25 meeting.	Rusche
10. Evaluate the availability of the tank farm and the possible sources of leakage to the building containment for 1330 5/25 meeting.	Wilson/ Herbein
11. Evaluate existing data concerning level determination for accuracy for 1330 5/25 meeting.	Cobean/ B&W/ Wilson
12. Provide holiday coverage for shield installation of Tank Farm Pump.	Hirst

ACTION ITEMS

TECHNICAL WORKING GROUP

0900

5/26/79

<u>Item</u>	<u>Action</u>
1. Secure containment cooling system and allow building pressure to float. Ambient conditions to dictate.	Herbein
2. Sump level checks will be done three times/day.	Herbein
3. Waste water from Unit 2 should not be moved to Unit 1 at this time.	Rusche/ Herbein
4. Provide estimates of activity release at the site boundary if the containment becomes pressurized as a result of no containment cooling.	Rusche

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PLANT OPERATION STAFF

Task	Description	Priority	Expected Completion	Status	Task Coord.
1.	Plant Status.	A-1		Going Solid today Bubble at 290 psig	
2.	Get recommendation on running O TSG "B".	C-1		Run pump on recir and develop plan for cutting into OTSG "B".	Kunder
3.	Obtain RCS sample (Primary letdown).	C-1	5/29	RCS Sample	Hetrick
4.	SSRW pump "C" repair.	C-1		Assembling.	Shovlin
5.	Decay Heat System.	C-1		Hold on repair of "A" leaks.	Toole
6.	Remove water from "B" Fuel Pool.	B-1		In progress.	Kunder/Logan
7.	Isolate Unit #1 and #2 sample stations.			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.			60% complete. Parts in ship- ment.	Shovlin
11.	CO-P-1B repair motor.			Motor on site.	Shovlin
12.	Repair of 3 B FW heater (TS - 3C plant mods.)	C-1		Filling for hydro	Shovlin
13.	Erect high radiation doors in Auxiliary Building		5/29	Cannot get access.	Shovlin

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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	Punch list items to be completed.	Turned over 5/23.	Lacy/ Fricke
WG-6 (L-2)	Install storage vessels in Fuel Pool "A".	A-1	Turn over by 5/25.		Gibson
WG-11	Water Chemistry Lab for use with CAP-GUN (WG-2).	A-1	Punch list items to be completed.	System complete 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	Punch list items to be completed.	Completed 5/23	Jordan/ Lanza
TS-6B	RCS pressure control system.	C-1	Complete by 6/1.	Turnover to test. 6/1.	Miller/ Lilly
TS-14	Shielding for decay heat pump.	C-2	Turnover 5/28.		Lieberman
TS-15	Westinghouse ADHR.	C-1	Turnover 6/16.	Schedule status shows piping installation and BER design are behind schedule.	Serago

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Westinghouse

Task	Description	Priority	Expected Completion	Status	Task Coord.
TS-15	ADHRS Installation	C-1	6/2	See below	F.J. Serago
	Westinghouse Engineering Design Complete	"	5/26	95% Complete	
	Valve Pit Design Complete (B&R)	"	5/25		
	Assemble ADHR Skid	"	6/2	Mech. 95% Complete, Elect. 45% Complete	
	Assemble CCW Skid	"	6/2	Mech. 95% Complete, Elect. 50% Complete	
	Receive Control Trailer	"	5/19	On-Site	
	Install Panels & MCC in Trailer	"	6/15	MCC's On-Site	
	Install Isolation Box	"	5/20	Comp.	
	Start Core Boring (12 holes)	"	5/25	Drilling in progress.	
	Complete Core Boring (12 holes)	"	5/26		
	Complete Installation of Pipe Penetration Assemblies	"	5/31		
	Cut 12" Header and Weld Weldolet	"	6/5		
	Cut 10" Header and Weld Weldolet Channel A	"	6/9		
	Cut 10" Header and Weld Weldolet	"	6/12		
	Complete Fit Up and Welding of Inside Piping (Total of 42 Field Welds)	"	6/16	First two Field Welds Rejected, Rework in Progress.	
Complete Fit Up & Welding of Outside Piping (Total of 15 Field Welds)	"	6/16	Excavation and support structure comp. Start date 6/1		

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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. Hard
LS.3	Initial Reporting of Event.	1	5/15 to NRC.	Active.	R.A. Leng
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/MPR
AA 69.	Define all plant mods needed for long-term operations.	1	?		Croneberge
AA 80.	Analytical and Tech. Planning Support for updated procedures (EP-32, etc.).	1	?	Continuing.	J.A. Dani
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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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

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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	5/23	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.	Reimann/ 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

* IRC 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	5/10	Report issued 5/10; complete.	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 as 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 Itschner/ *Collins

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* NRC contact

WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
3-5	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
-31	Determine air flow paths in AB/FHB.	A-1		Operating matrix developed and available.	Nawaz/ Itchner/ Robison/ *Weller
-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				

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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.	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				

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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				

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	FRB Airlock.	B-3		Airlock unnecessary at this time.	Inactive/ *Barrett
S-4	High level solid waste disposal investigation.	B-2		In Progress.	Pastor/ Edwards/ *Weller/ *Collins
S-5	Temp. on site storage for Demin. Liners - Design. *NRC contact	B-2	Final storage proposal by GAI. Being assessed by WMA.	In Progress	Pastor/ Edwards/ *Weller/ *Collins