

File

RTM notes  
4/15/79 9:00 am

PLANNING MEETING

0900 4/15/79

1. Review "Top Priorities" list.
2. Review Action Items from 4/16/79 Technical Review Meeting.
3. Review "0800, April 15, 1979 Tasks Lists."

Arnold

- ① water found in tendon gallery is gone (dry)  
radiation levels  $< .1$  mr/hr.
- ② iodine releases are troublesome  
est.  $1.2$  Ci/day based on one hr. sample yesterday  
10:30 - 19:15 sample  $\Rightarrow .54$  Ci/day  
12 hr sample out at 5:22 today  $\Rightarrow .46$  Ci/day  
unsure of source, but:
  - dryout of wet surfaces in Aux Bldg
  - B 5G leakage
  - Condenser air ejector discharge
  - change out of Aux Bldg charcoal filtersstack monitoring consistent with  $.5$  Ci/day  
ARMS flights at  $1.2 \times 10^{-10}$   $\mu$ Ci/cc consistent w/this est.  
- looking at leak possibilities in B 5G & water chemistry  
(leak in MS line isolation valve)  
- looking at sodium thio sulfate sprays for Aux Bldg.
- ③ vent stack monitors working
- ④ recombiner working again.
- ⑤ Heise gage & dp transmitter damaged during hook-up & calibration - must be rebuilt - operator error

rebuild and reinstall outside sample room — probably a day or so to finish —

⑥ Aux. Bldg. filters

- new compressor, all enroute, use of inst. air still being studied
- 20 trays out (75 to go)
- new ones go in by stages, none in yet, replace lower 45 all at once after 45 are removed.

⑦ another pressurized primary sample

training some other people (not Met Ed)  
some leaks in the area being stopped up (from hydro failure of Heix gage)  
adding new local shielding  
aiming for sample by late afternoon.  
this 2<sup>nd</sup> sample is to go to B&W  
transportation arranged by B&W

⑧ unpressurized primary sample.

emphasis on Boron (local analysis)

⑨ Make up tank

- pressure up to 8 down to 6 by raising its level
- tank still isolated
- will sample if it goes to 10 in preparation for venting
- Lawroski still trying to find leak in the vent header, prognosis not good.
- guessing that a valve diagram is the source - getting procedure of training lined up to change it (~~to~~ 1 K/hr)

⑩ Core TC recording

- short on recorders - will identify needs of Jim Kunkel will obtain Akerman concurrence
- 2 now installed in CR of 2 in cable sample room.

⑪ ~~DHR~~ DHR mods

- holding excavation pending NRC & IAG advice
- NRC looks like OK
- IAG says commence excavation but hold longer for hole punch decision and troubled by size of skid mount train.
- B & R (Coburn) still looking at problems in excavation.
- Arnold has the only hold on excavation at this time.

report out tomorrow

⑫ Containment Sump level Measurements

- gages installed
- 100 mtr ~~mm~~ received in pit during installation
- need procedure (3 phases)
  - ① isolate BWST (coord. w/control room)
  - ② depressurize thru vent of BWST doesn't decay
  - ③ jog DH-V6 - approval by mgmt group before doing it.
- instrument error is  $\pm 1.2$ " of H<sub>2</sub>O
- temp of water is unknown, so to 150°F could lead to 3" uncertainty in level.

make sure NRC group review procedure via control room

Res + Barbara can do is 4/16

⑬ RJM handed out prelim analysis of 1st pressurized primary sample (Allied)

④ Cobean B SG modifications

- secondary services cooling water system was first choice for short term, despite the fact that a lot of <sup>new</sup> piping was required. The system is limited to 75 psig @ 150 °F (200 °F probably OK for short period of time) by the heat exchanger design.
- in putting design together showed that a substantial time is required for piping installation - result is May 6 completion date
- because of this and because of availability of pump & ht exchanger for long term fix, question is now raised whether long term fix can be done quicker
- GPU to lay out options & discuss decision today ~~or~~ or tomorrow early w/NRC

(RTM got a contact at NR (R. Mark Forsell) telephone contact w/Arnold established - Hendrie to R. Mark Forsell)

to come consult - coord w/Per. Sekis.

Top Priorities

1. Install filters in air ejector discharge.

Status: System is installed and a modification to suction line (installation drain) in progress.

2. Change out charcoal filters in one 50X train in Auxiliary Building.

Status: Seven (7) filters out. Shipping container for NRC filter available.

3. Change out charcoal filters in one 50X train of Fuel Handling Building.

Status: Work scheduled to begin upon completion of changing out Auxiliary Building Filters.

4. Install liquid waste tank farms in spent fuel pool "A".

Status: Steel for fuel pool "A" racks delivered 4/12/79; five (05) tanks available, remaining 15000 gallon tank.

Radiation levels in fuel handling building prevent entrance for installation of tank supports. Welder qualification in progress.

5. Install Cap-Gun system in Chemical Cleaning Building.

Status: Cocooning of building, monorail opening, monorail foundation and off-site fabrication of monorail is in progress. Completion of these activities plus installation of monorail by 4/23/79. This completion date is 4 days beyond the original planned date of 4/19/79 due to delays in steel fabrication.

6. Decay Heat Removal System.

Status: Building cleanroom around entrance to diesel generator room (completion expected 4/14/79). Decontamination to start 4/15/79. Indust. cooler duct to be relocated.

7. Nitrogen pressurized tank P/V control system.

Status: Flow diagram schedules are being reviewed by GPU and NRC. Estimated installation date has been changed from 4/22/79 to 5/02/79.

8. Containment sump level measurement instrumentation.

Status: Two (02) Heise gauges are available and calibrated. Operational/ installation procedures are prepared and awaiting NRC approval. Gauges installed.

Top Priorities

9. Hydrogen Recombiner Repairs.

Status: Recombiner #2 repaired and in service. #1 in standby.

10. Pressurizer level alternate measurement system.

Status: Heise gauge and transmitter are installed.

ACTION ITEMS

## Task Management/Schedule

0900 4/14/79

	<u>Action</u>
1. De-con sample room; complete work on Heise Gauge and P transmitter.	Herbein
2. Resolve air supply problems; continue removal of Auxiliary Building filters.	Herbein
3. Stack Monitors: 219 should be in service by 1200; 220 has bad pump. Place both in service.	Herbein
4. Develop OTSG shell temperature/condenser pressure correlation.	Wilson
5. Confirm status of Atmospheric Steam Pump valve leak on "B" OTSG. Confirm if we are periodically feeding the "B" OTSG.	Herbein
6. Evaluate necessity for periodic primary samples (possible boron dilution).	Wilson Herbein
7. Develop concept of on-site sampling and analysis capability.	Ackerman
8. Complete installation of Heise Gauges for Containment Sump level indication.	Herbein
9. Review proposed alternate DHR System and comment.	NRC IAG
10. Provide assessment of the impact if DH-V6B does not close after taking containment sump level measurement. Consider pressurizing line outside containment (using BWST head) and test for leakage through DH-V6B <u>before</u> opening.	Cobean
11. Place core exit thermocouples on recording system.	Herbein Ackerman

4/14/79

ACTION ITEMS  
*TECHNICAL REVIEW*  
MANAGEMENT/SCHEDULE MEETING  
1800 4/14/79

Action

1. Complete installation and bench marking of pressurizer pressure Heise gauge and Pressure Transmitter. Herbein
2. Complete repairs to #1 Hydrogen Recombiner. Check #2 recombiner for similar failure mode. Herbein
3. Vent pressurizer once per day for 15 minutes. Herbein
4. Check design conditions of pressurizer vent valve to assure compatability with current service condition. NRC/Wilson
5. Complete by 0900 4/15/79 installation of containment sump Heise Pressure Gauge. Herbein
6. Compile technical argument that supports non-interchange of water at DH-V6B. Cobean/Wilson
7. Report results of stack analysis prior to 0845 on 8/15/79. Herbein
8. Review status of B&R work. Cobean
9. Prepare recommendation on method of Utilizing Special Instrument Group (Ackerman) IAG (Levison)
10. Take M.U. Tank sample when tank pressure increases to 10 psi. Herbein
11. Check suitability of using Instrument Air System for Air Breathing - Determine how to best use Instrument Air System for Air Breathing purposes (how many supported). Health & Safety (Gayer)/Cobean
12. Continue work on replacement of auxiliary building filters. Herbein
13. Report on methods to improve Procedures. Wilson
14. Continue modifications to air ejector filtration unit. Cobean



Plant Modifications

<u>Task</u>	<u>Description</u>	<u>Priority</u>	<u>Status/Date Due</u>	<u>Task Coord.</u>
WG-2	Decon. water in AB using Cap-Gun ion exchange process	1	Complete procurement- 4/17; Equip. avail. 4/18; Install Comp. 4/22. 14 of 22 ECM's issued.	Cobean
TS-3	Develop complete package for short-term cooling of "A" and "B" OTSG.	1	ECM by 4/15; Install Comp. "A" 4/20; "B" 4/21.	Wilson/ Cobean
TS-3	Develop complete package for long-term cooling of S.G. "A" and S.G. "B"	1	Schedule being developed	
TS-4	Develop complete package for measuring water level inside Reactor Building	1	Heise Gauge calibration underway.	Devine/ Cobean
TS-10	Decide location design/ install 2-2500 kW diesel generators	1	Equip. avail. 4/11 Est. ready for test 4/20	Cobean
TS-11	Develop electrical distribution system. Install cabling and switchgear from DG's to current BOP loads requiring loss of off-site power protection	1	Equip. avail. 4/10 Install comp. 4/20	Cobean
WG-6	Install storage vessels in Fuel Pool "A"	1	ECM's; 4/15, Installation complete 4/19	Cobean/ Gunn
WG-8	Install roll-up door airlock to Fuel Handling Bldg.	1	On Hold	Wilson
1063	Condenser vacuum pump filters	1	Installation complete 4/14. Functional Testing 4/15	Gunn/ Toole
TS-6	RC loop passive pressure control system	1	ECM complete 4/17 Install. comp. 5/2 per verbal estimate	
TS-6	RC loop active pressure control system	1	5/2 same as passive sys	
TS-14	Shield for decay heat pump pits	1	On hold	Wilson

0800 4/15/79

Plant Modifications

<u>Task</u>	<u>Description</u>	<u>Priority</u>	<u>Status/Date Due</u>	<u>Task Coord.</u>
WG-1	Install AB/FHB Filter System	2	Equip. avail. - 4/16 Install. comp. - 4/16	Bachofer
TS-9	Provide augmented instrument air system.	2	On hold	
WG-3	Vent stack monitor HPR-219 recovery system	2	Inst. comp. - 4/13 - Funct. Test - 4/14 - Need T/O pkg. to SU&T	
TS-13	Install and complete turn-over package of electrical heaters in supply side of Aux. Bldg.	2	To be scheduled	Gunn
TS-5	Method for containment flooding with $10^6$ ft <sup>3</sup> of water	3	Need status	
TS-8	Install housing for two (2) long-term HP DHR systems	2	Design - 4/20 Install - 5/31	
	Design 1X shield wall at cond. demins	3	On hold	Wilson

Plant Operations Staff

<u>Task</u>	<u>Description</u>	<u>Priority</u>	<u>Status/Date Due</u>	<u>Task Coord.</u>
1	Obtain RCS pressurized samples.	1	Sample #2 (B&W) 4/15	Hetrick/ Shift Supt.
2	Pressurizer $\Delta$ p transmitter and Heise gauge	1		Shift Supt.
3	Sample make-up tank gas space	1	Pressurization in progress psig @	Shift Supt./ Hetrick
4	Reduction of RCS temp. to 230 F.	1	Ongoing	Devine/ Shift Supt.
5	Return H <sub>2</sub> Recombiner to service	2		Shift Supt./ Poje
6	Restore pressurizer heaters - 1392 kW of total 1638 avail.	2	Working	Porter
7	Issue master organizational plan	2	Being developed	Colitz/ Christman
8	Atmos. dump on OTSG "B". Leakage to M20 area (1" valve has body/ bonnet leak)	2		Shift Supt./ Shovlin
9	Security split Unit 2/Unit 1	2	Est. 4/16	Troffer
10	Failure of HP-R221B & 222 (HP-R 219 was returned to service-Eberline)	1		Shift Supt./ Kunkel
11	Monitor pwr and let down for de-gas indications	1	On going	Miller/ Shift Supt.
12	Put In Core Thermocouples on recorder	2		Miller/ Porter
13	Define Q.C. level on modifications being made to plant (support systems)	2		Gunn/ Wright

Technical Support

<u>Task</u>	<u>Description</u>	<u>Status/Due Date</u>	<u>Task Coord.</u>
TM-23A	Passive RCS P/V Control System		Capodanno
TM-23B	Active RCS P/V Control System		Capodanno
C-10	Loss of PZR Heaters	Issued for Review Approval 4/16	Wilson
C-13	Loss of PZR Vent Valves	Issued for Review Approval 4/16	Wilson
TH-30	Determine what B.O.P. loads need backup elect. power	Issued for Review 4/13	Capodanno
C-15	In core thermocouples, RTSs, MU tank level, RCS flow inst.	Expected Approval 4/17	Wilson

Waste Management Group

<u>Task</u>	<u>Description</u>	<u>Priority</u>	<u>Status/Date Due</u>	<u>Task Coord.</u>
1	Set-up to change AB/FH Bldg. vent. filters (ensure zero leakage - QC to follow)	1	In progress (7) of 90 out	Shovlin/ Futrill/ Bitel
2.	A. Design and contract high level liq. waste storage vessels using spent fuel storage pool.	1	ECM, 032; issued ECM's complete 4/15; installation 4/20	Bitel/ Cobean/ Gunn
	B. 15K gal. tanks returned to VDR. and test - total (4) req'd.	1	Last tank to be delivered	
	C. Issued MEC WR 1909 to remove pipe in pool.	1	No status	
	D. Determine licensing requirements.	1	No status	
3.	A. Decon. water in AB using Cap-Gun ion exchanger process - prepare chem. cln. bldg. (Cap-Gun 2)	1	Ready for test 4/23	Cobean/ Gunn
	B. Initiate test requirements (generic procedures)	1		Toole
4.	Train/RWP const. support people	1	On going	Troffer
5.	Decon. diesel generator building (Westinghouse)	2	Estimated start 4/15 Delayed	Gunn/ Bitel
6.	Pump Bleed Tanks - Unit 2 to Unit 1	2	Hold pending 1. No space avail. 2. NRC questions	Shift Supt.
7.	Coordinate all water movement, radwaste system transfers in Unit 2 AB	1		Seelinger

Industry Advisory Group

<u>Task</u>	<u>Description</u>	<u>Priority</u>	<u>Status/Date Due</u>	<u>Task Coord.</u>
1.	Determine method of finding leak in vent header	1+	ASAP	H. Lawborski
2.	Provide recommendation for alternative methods of P/V control	1	In progress	Ackerman
3.	Evaluate fire in containment	1	Completed 4/13 Close-out memo IA-3	Thiesing
4.	Long term heat removal	1	Being restudied	Thiesing
5.	Unit 2 Containment Building			
	a. Possible causes of change of state		Completed Close-out memo IA-5A	
	b. P/T suitable for 30 days		Completed Close-out memo IA-5B	
	c. Cleanup options for containment atmosphere	2	In progress	Lawroski
6.	Current assessment of core status			
	a. From thermal-hydraulics instrument data	1	Completed 4/13 Close-out memo IA-6A	Solbrig
	b. Sequence of events and core descriptive from events understanding	1	Completed 4/13 Close-out memo IA-6B	Fletrich
7.	Provide Documentation of completed items	2	Ongoing	
8.	Surveillance of Work Mgt. Group	2	No Action	To Be Assigned
9.	TMI Unit I Start-up Securing Cortonia	3	No Action	To Be Assigned
10.	Reflux Boiler	2	Initiated	Miench
	a. Non-Condensable /Water level/ RPV			
	b. Temperature & Pressure Study of low reactor pressure	2	Completed 4/12 Close-out memo IA-10B	Koler
11.	Instrument Diagnostics (reactor core instrumentation)	1	Ongoing (Continual)	Ackerman
12.	Specifications for Reflux Boiler Test			
	a. Feasibility	2	In Progress	Fornandoz
	b. Specific Parameter	2	In Progress	Fornandoz

Industry Advisory Group

<u>Task</u>	<u>Description</u>	<u>Priority</u>	<u>Status/Date Due</u>	<u>Task Coord.</u>
13.	Water Level/Reactor P/V			
	a. Short-form	2	Not Studied Yet	Fornandoz
	b. Long-form	2	Not Studied Yet	Fornandoz
14.	Model for boron/gas in primary system	2	In progress	Koler
15.	Evaluate RHR System (WE)	1	In progress	Lichtenberger
16.	Put all TC (Reactor) in Nocordors	1	In progress	Ackerman
17.	On-Line Monitoring of Boron and Gasses	1	In progress	Ackerman
18.	Risks/Advantages of going to Natural Circulation as is vs. Present Plan	1	In progress	Paddlefor

## WESTINGHOUSE

<u>Task</u>	<u>Description</u>	<u>Priority</u>	<u>Status/Date Due</u>	<u>Task Coord.</u>	<u>Note</u>
I.B.1.	Decontaminate for DHR Sys. checkout	1	D.G. Bldg. 4/15 Aux. Bldg. 4/16	Siano	1
I.B.2.	Install Aux. Bldg. T.V. monitor for existing DHR system.	2	After decon	"	2
I.B.4.	Install DHR remote operation equipment.	1	After decon.	"	
I.B.5.	DHR flow/pressure tests	1	After decon.	"	
II.A.1	ADHR (new) system design & approval.	1	ongoing	"	3
II.A.1	ADHR final test procedure	1	ongoing	"	
II.A.1.	Final ADHR installation procedure	1	ongoing	"	
II.A.2.	ADHR procurement	1	ongoing	"	
II.B.	ADHR installation	1	No status	"	

## NOTES:

- 4/14/79, Entry Tent completed by subcontractor. Decon could be delayed as a result of Catalytic Manpower shortage during Easter Sunday.
- T.V. Monitor Trailer spotted 4/14/79
- Design Review started 4/13/79.....General Arrangement Dwg. due 4/14/79



4-14 4-15 4-16 4-17 4-18 4-19 4-20 4-21 4-22 4-23 4-24 4-25 4-26 4-27

INSTALL SUMP EQUIP./TERM.  
EQUIP. IN TRENCH ROD AREA

LIVING HOUSE A.D.H.R. SCHEDULE

OBTAIN ENTRY APPROVAL

OBTAIN EXCAVATION  
APPROVAL - R.C.A.

BUILD  
CLEAN  
ROOM

DE-CON

DECON VALVE  
ROOM/SUMP  
AREA

PIERCE  
WALL

INSTALL PIPE SUPPORTS

EXENS. DIESEL  
ROOM

SCHEDULED  
EQUIPMENT/SKID  
DELIVERY

HYDRO

SET SKID/PANEL

MECHANICAL/  
ELECTRICAL  
HOOK-UPS

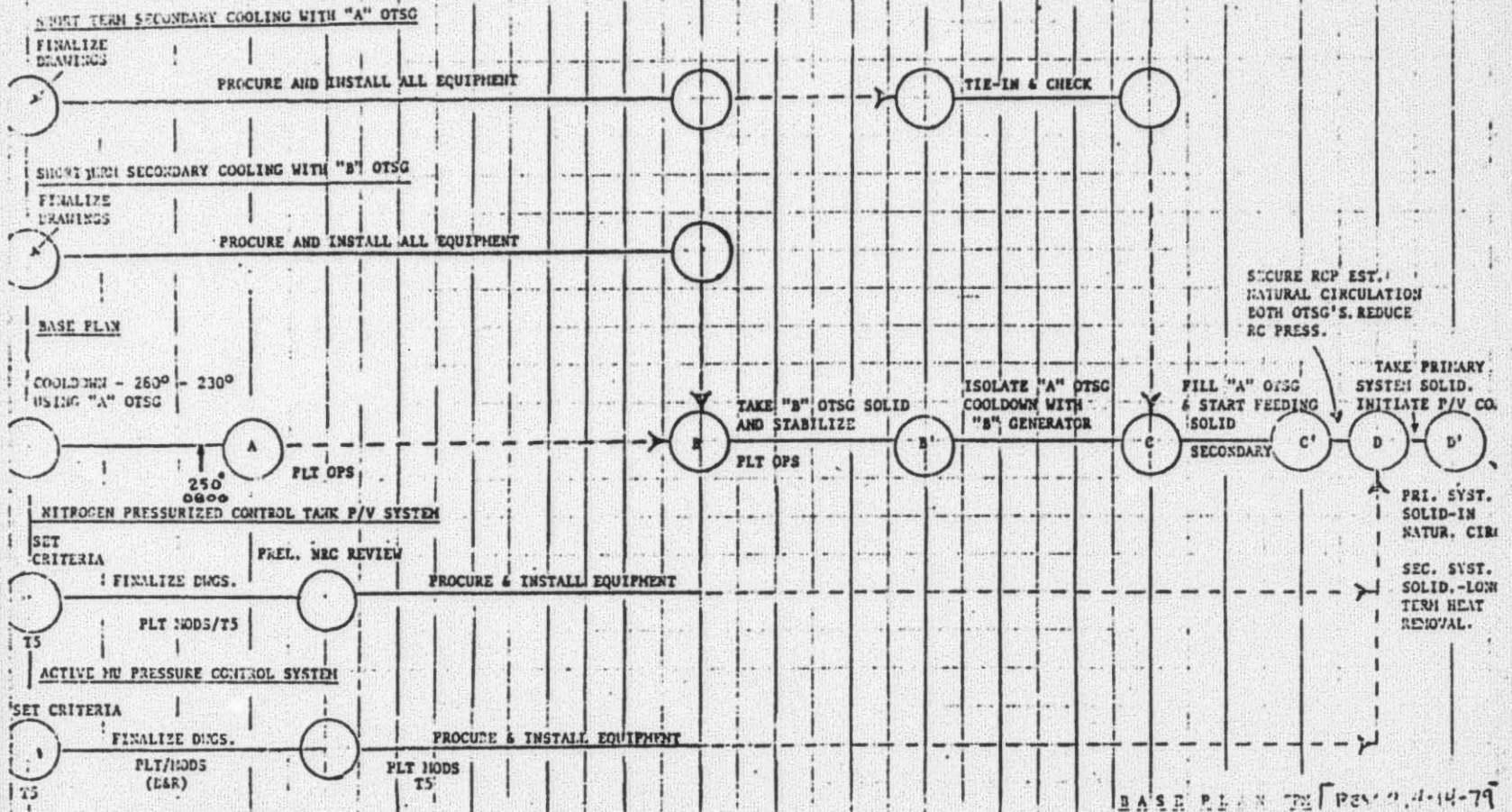
PROCURE & LAY COOLING WATER PIPE/TIE TO SERVICE UNIT

TIE-IN

SEAL  
BUILDING

4-14-74 1330

4/13 | 4/14 | 4/15 | 4/16 | 4/17 | 4/18 | 4/19 | 4/20 | 4/21 | 4/22 | 4/23 | 4/24 | 4/25 | 4/26 | 4/27 | 4/28 | 4/29 | 4/30 | 4/31 | 5/



SECURE RCP EST.  
NATURAL CIRCULATION  
BOTH OTSG'S. REDUCE  
RC PRESS.

TAKE PRIMARY  
SYSTEM SOLID.  
INITIATE P/V CO.

PRI. SYST.  
SOLID-IN  
NATUR. CIRC.

SEC. SYST.  
SOLID.-LOW  
TERM HEAT  
REMOVAL.

ACTION ITEMS

## Task Management/Schedule

0900 4/14/79

	<u>Action</u>
1. De-con sample room; complete work on Heise Gauge and P transmitter.	Herbein
2. Resolve air supply problems; continue removal of Auxiliary Building filters.	Herbein
3. Stack Monitors: 219 should be in service by 1200; 220 has bad pump. Place both in service.	Herbein
4. Develop OTSG shell temperature/condenser pressure correlation.	Wilson
5. Confirm status of Atmospheric Steam Pump valve leak on "B" OTSG. Confirm if we are periodically feeding the "B" OTSG.	Herbein
6. Evaluate necessity for periodic primary samples (possible boron dilution).	Wilson Herbein
7. Develop concept of on-site sampling and analysis capability.	Ackerman
8. Complete installation of Heise Gauges for Containment Sump level indication.	Herbein
9. Review proposed alternate DHR System and comment.	NRC IAG
10. Provide assessment of the impact if DH-V6B does not close after taking containment sump level measurement. Consider pressurizing line outside containment (using BWST head) and test for leakage through DH-V6B <u>before</u> opening.	Cobean
11. Place core exit thermocouples on recording system.	Herbein Ackerman