

Public Service
Electric and Gas
Company

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June 4, 1987

NLR-N87101

United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Gentlemen:

SCHEDULE FOR IMPLEMENTATION OF DETAILED CONTROL ROOM
DESIGN REVIEW (DCRDR) MODIFICATIONS
SALEM GENERATING STATION
UNIT NOS. 1 AND 2
DOCKET NOS. 50-272/50-311

The purpose of this letter is to document the schedule for installing modifications to the Salem Generating Station Control Room which are necessary as a result of the Salem DCRDR. This schedule is in accordance with the agreements reached in a meeting with members of the NRC staff on May 21, 1987, in Bethesda, Maryland.

A detailed schedule for implementation of the modifications is attached along with a list of HEDs and their scheduled completion dates. Major activities include construction of a full-sized detailed mockup of the Salem Control Rooms for evaluating proposed changes, modification of the Salem simulator prior to modification of the control rooms, and the actual modification of the control rooms. This plan will ensure that the modifications can be installed in the control room expeditiously and will enable the operations staff to be trained on the modifications prior to their installation in the control room.

Please contact us if you have any further questions on this matter.

Sincerely,



8706160118 870604
PDR ADDCK 05000272
P PDR

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C Mr. D. C. Fischer
Licensing Project Manager

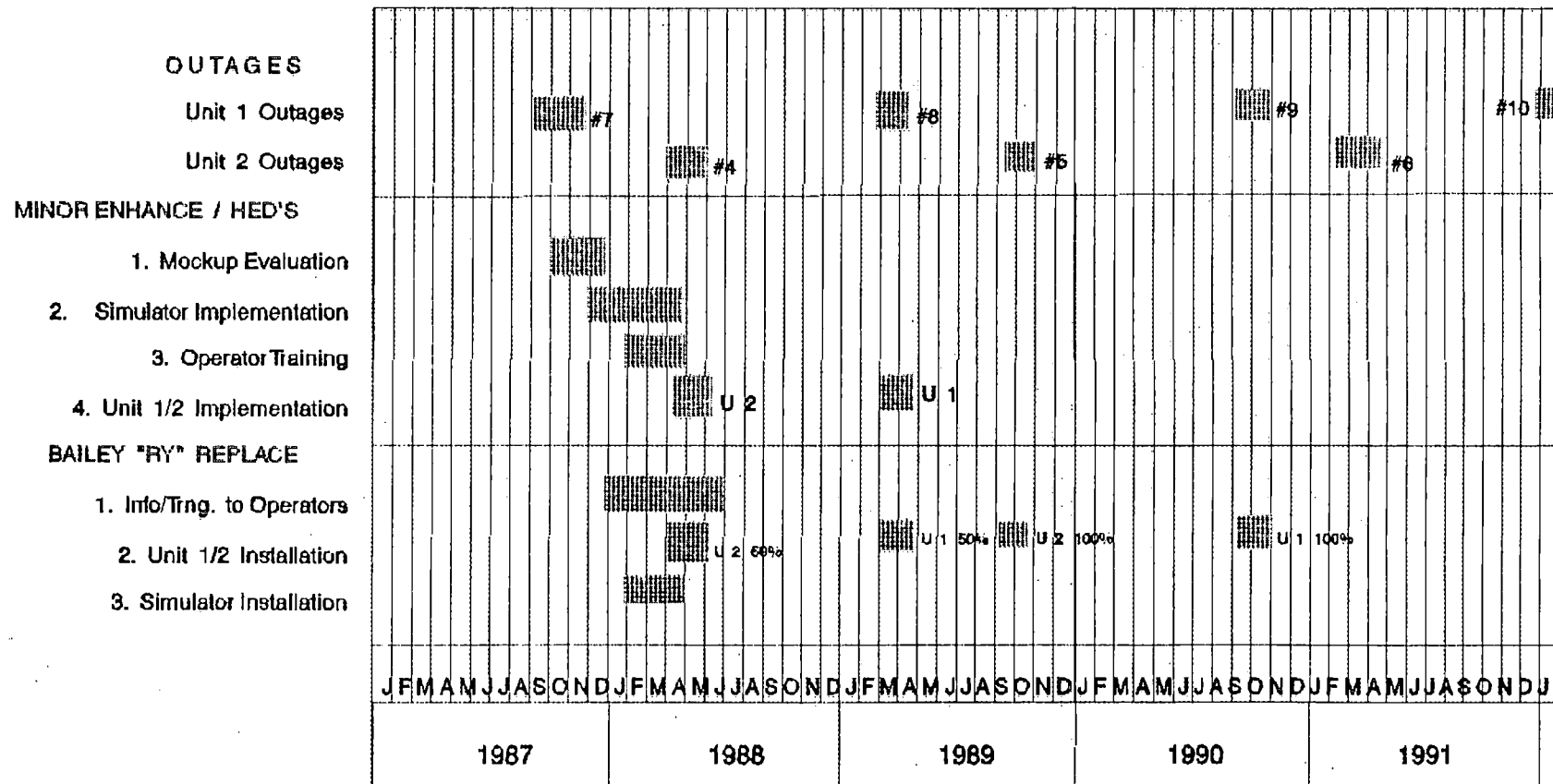
Mr. T. J. Kenny
Senior Resident Inspector

Mr. W. T. Russell, Administrator
Region I

Mr. H. J. Miller, Acting Director
Division of License Performance
and Quality Evaluation

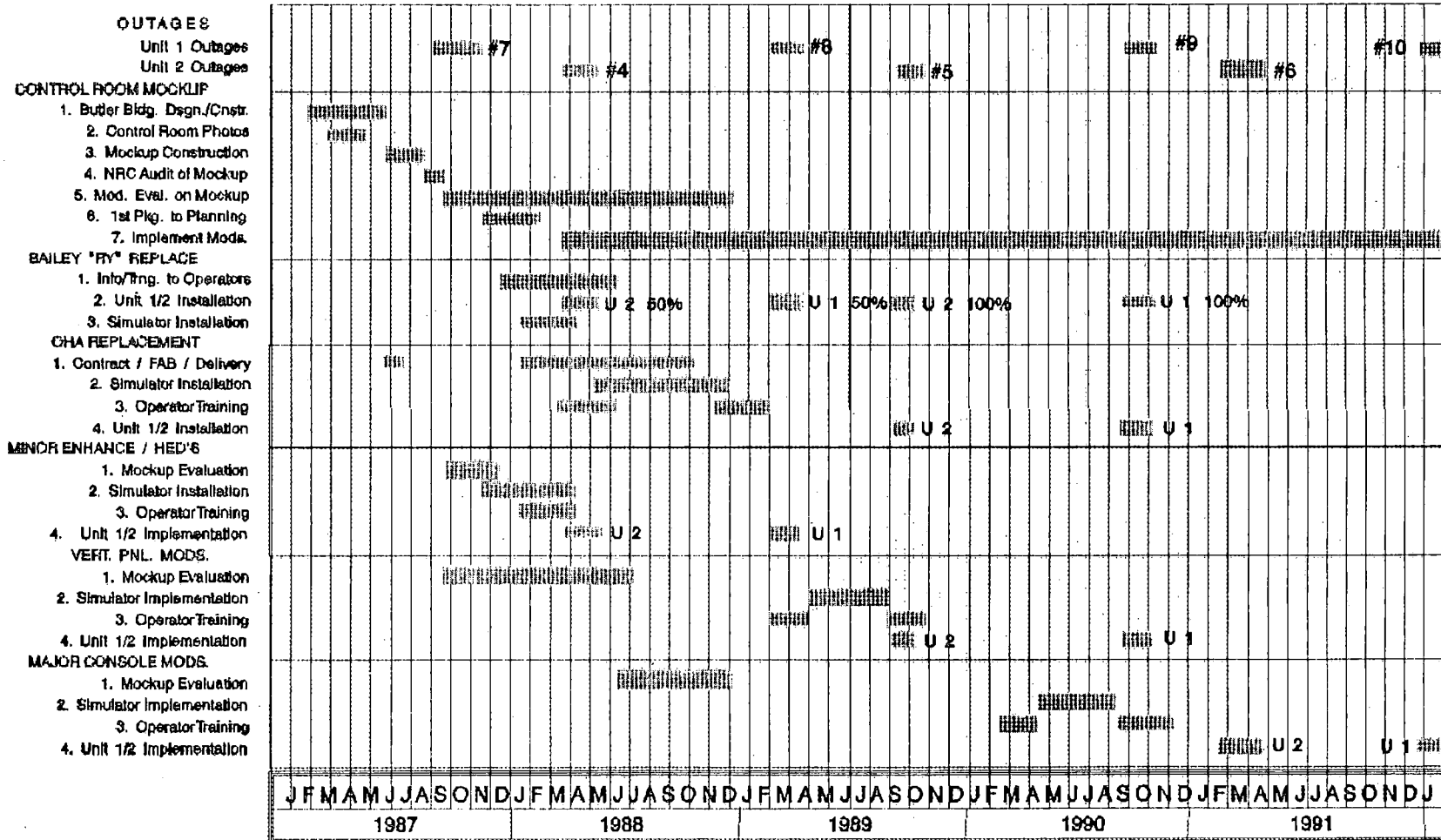
Mr. D. M. Scott, Chief
Bureau of Nuclear Engineering
Department of Environmental Protection
380 Scotch Road
Trenton, NJ 08628

SALEM SIMULATOR / CONTROL ROOM REDESIGN IMPLEMENTATION SCHEDULE



OUTAGE SCHEDULES MAY VARY SLIGHTLY BASED ON OPERATING CONDITIONS

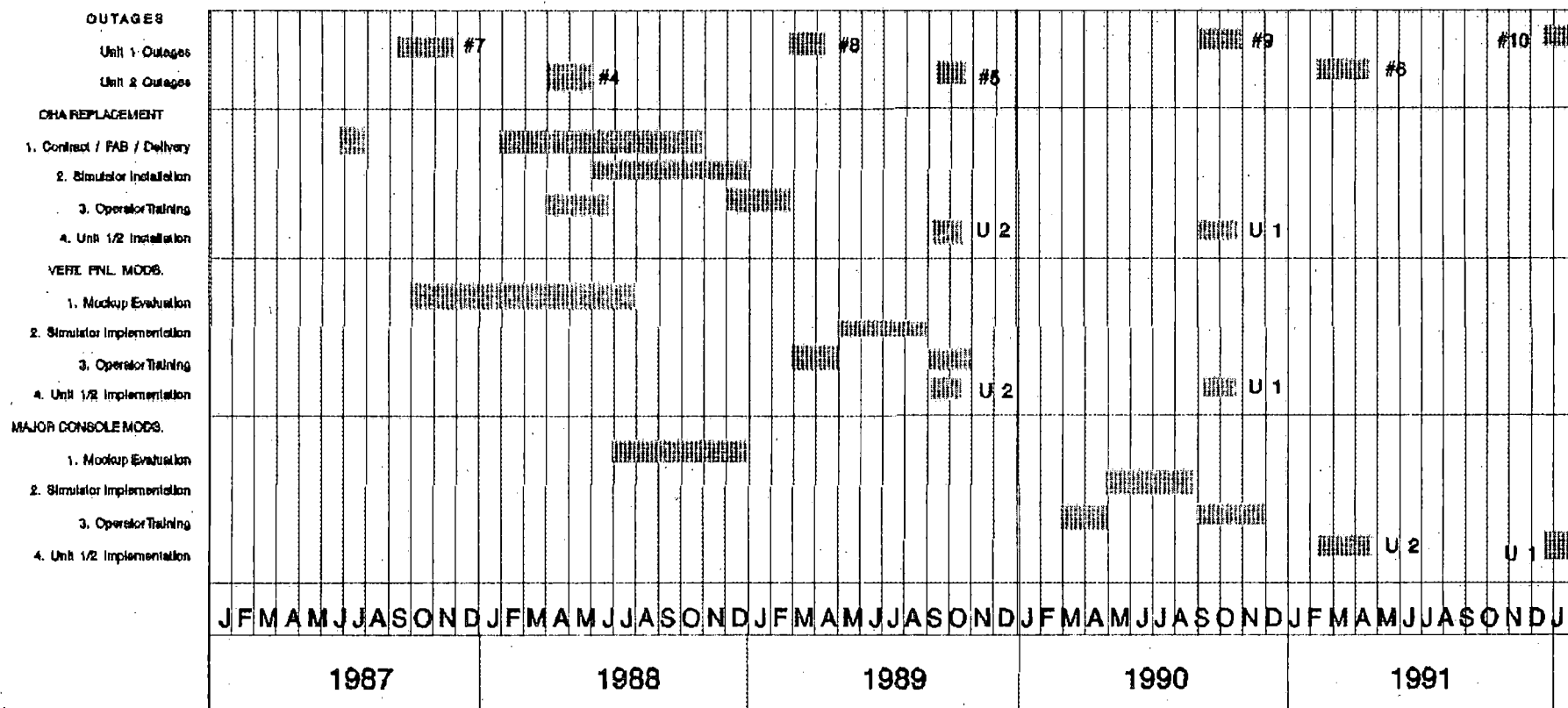
SALEM SIMULATOR / CONTROL ROOM REDESIGN IMPLEMENTATION SCHEDULE



Vert. PNL. Mods. include Instrument Relocation, RP3 Mods., Rod Bottom Lights, Reactivity Computer Removal, CMC Switch Standardization. Major Console Mods. include CC1, CC3, RP7-9 Changes, Modification to Operator Station.

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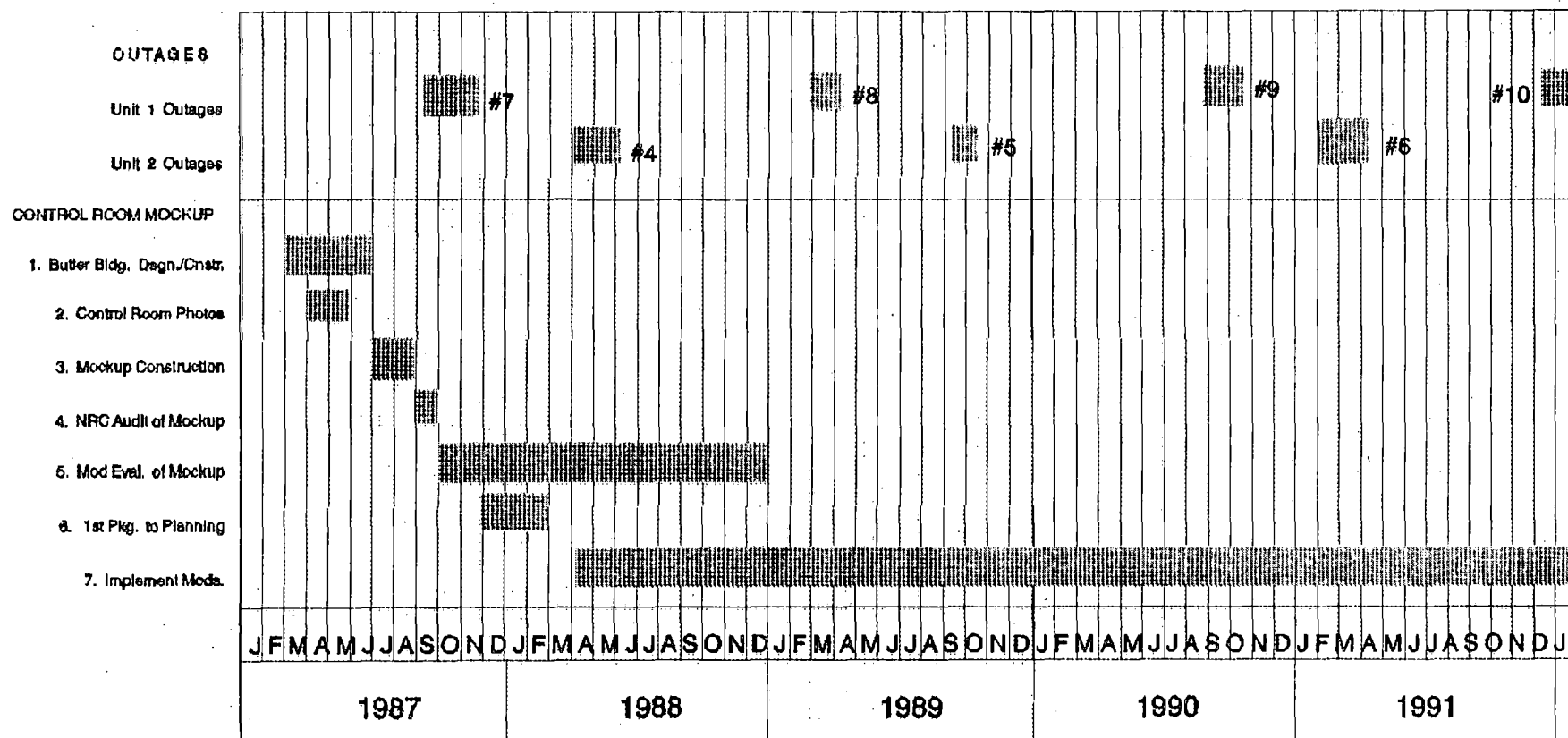
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SALEM SIMULATOR / CONTROL ROOM REDESIGN IMPLEMENTATION SCHEDULE



OUTAGE SCHEDULES MAY VARY SLIGHTLY BASED ON OPERATING CONDITIONS

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HEDS TO BE CORRECTED SORTED BY CATEGORY

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HED	LOCATION	TOPIC	ACTION	CATEGORY	UNIT 1 OUTAGE	UNIT 2 OUTAGE	SCHEDULE CATEGORY
129	Generic	EQ Indicators	Identify	2	5	3	Miscellaneous
128	Generic	Stm Gen Press recs	Provide		6	3	Miscellaneous
127	CC-3	Steam dump valves	Light		7	3	Miscellaneous
676	CC-2	Rapid Bn vlv pb	Remove		7	4	Miscellaneous
018	CC-1	RHR MX CCW Outlet	Modify		8	4	Bailey RY's
050	RP-2	Swgr rm exh fan	Label		8	4	Enhancements
052	RP-4	Rx protect mimic	Label		8	4	Enhancements
057	Generic	% meters	Identify		8	4	Bailey RY's
058	CC-2	RCP seal leak rec	Scale		8	4	Enhancements
107	CC-2	Letdown pressure	Label		8	4	Enhancements
154	Generic	Meters	Scale		8	4	Bailey RY's
472	213	Pzr press meter	Scale		8	4	Enhancements
627	CC-1	Cold leg flow meters	Scales		8	4	Bailey RY's
654	CC-2	Stm gen meter	Label		8	4	Enhancements
675	Generic	Legend pushbuttons	Inserts		8	4	Enhancements
674	Generic	Legend pushbuttons	Replace		8	1986	Enhancements
015	Generic	Page system	Upgrade		9	5	Miscellaneous
016	Generic	Emerg C.R. HVAC	Indicate		9	5	Vertical Panel
017	Generic	Demin water	Indicate		9	5	Annunciator
057	Generic	% meters	Identify		9	5	Bailey RY's
154	Generic	Meters	Scale		9	5	Bailey RY's
260	Generic	Cntl legend light ind.	Replace		9	5	Vertical Panel
502	Ann	Annunciator controls	Replace		9	5	Annunciator
638	CC-3	Stm gen bdwn alarm	Relocate		9	5	Bailey RY's
356	RP-4	Hot & cold leg recs	Scale		1986	1986	Vertical Panel
306	CC-3	Turbine trip pb	Separate		1987	4	Miscellaneous
162	Generic	Alarm lenses	Replace		1987	1987	Enhancements

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HEDS TO BE CORRECTED

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HED	LOCATION	TOPIC	ACTION	CATEGORY	UNIT 1 OUTAGE	UNIT 2 OUTAGE
002	RP-1	Dymac probe monitors	Relocate	4	9	5
010	RP-7	Turbine controls	Replace	4	7	3
013	RP-1-6	Meters	Relocate	3	9	5
014	RP-1	Radiation monitors	Relocate	3	9	5
015	Generic	Page system	Upgrade	2	9	5
016	Generic	Emerg. C.R. HVAC	Indicate	2	9	5
017	Generic	Demin water	Indicate	2	9	5
018	CC-1	RHR HX CCW Outlet	Modify	2	8	4
019	CC-1	Safeguards trn A&B	Change	3	1987	1987
038	RP-4	Thot &Tcold rec.	Relocate	4	8	4
039	CC-2	Panel arrangement	Revise	3	8	4
041	CC-2	Stm gen indicators	Arrange	3	8	4
046	RP-1-9	Labels	Relocate	4	8	4
050	RP-2	Swgr rm exh fan	Label	2	8	4
052	RP-4	Rx protect mimic	Label	2	8	4
053	RP-3	Camera controls	Remove	4	9	5
055	RP-3	Rod bottom lights	Relocate	4	9	5
057	Generic	% meters	Identify	2	8	4
057	Generic	% meters	Identify	2	9	5
058	CC-2	RCP seal leak rec	Scale	2	8	4
059	CC-2	Recorders	Label	4	8	4
060	CC-2	AFW ST level	Z Mark	4	9	5
061	CC-2	Meters	Scale	4	8	4
066	Generic	Meters	Z Mark	4	8	4
067	CC-2	RP Meters	Scale	4	9	5
067	CC-2	RP Meters	Scale	4	8	4
072	CC-1	ACC TK level meter	Z Mark	4	8	4
090	Generic	Communications	Install	4	10	6
091	Generic	Sound-power phones	Store	4	10	6
092	Generic	Sound-power phones	Repair	4	9	5
107	CC-2	Letdown pressure	Label	2	8	4
109	CC-2	CVCS & CHRG bezels	Demarcate	4	8	4
113	CC-2	CVCS	Demarcate	4	8	4
120	CC-2	Feedwater heaters	Demarcate	4	8	4
122	CC-2	RC temperature mtrs	Demarcate	4	8	4
123	CC-1	POPS Controls	Label	3	1985	1983
124	CC-2	CRP & insert recs	Label	4	8	4
125	Op Desk	Communications	Arrange	4	10	6
126	RP-6	Relay prot lights	Demarcate	4	8	4
127	CC-3	Steam dump valves	Light	2	7	3
128	Generic	Stm Gen Press recs	Provide	2	6	3
129	Generic	EQ Indicators	Identify	2	5	3
132	CC-1	Cool down valves	Arrange	4	8	4
133	CC-1,2,3	Controls, meters	Arrange	3	8	4
133	CC-1,2,3	Controls, meters	Arrange	3	9	5
134	CC-1	RHR, SI sys,RCP	Arrange	3	8	4
139	CC-1	Safeguard Act sys	Demarcate	3	8	4
141	CC-1	CCW Bezel	Arrange	3	8	4

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HEDS TO BE CORRECTED

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HED	LOCATION	TOPIC	ACTION	CATEGORY	UNIT 1 OUTAGE	UNIT 2 OUTAGE
143	CC-1	Wtr treat alarms	Relocate	4	9	5
145	CC-1	Legend pbs	Demarcate	4	8	4
146	CC-1	Controls, meters	Demarcate	3	8	4
150	Generic	Meter scales	Scales	4	8	4
151	Generic	Meter scales	Scales	4	8	4
152	Generic	Legend pbs	Standardize	4	8	4
153	Generic	Meters	Standardize	4	9	5
153	Generic	Meters	Standardize	4	8	4
154	Generic	Meters	Scale	2	9	5
154	Generic	Meters	Scale	2	8	4
155	Generic	Meters	Scale	4	9	5
155	Generic	Meters	Scale	4	8	4
162	Generic	Alarm lenses	Replace	2	1987	1987
179	RP-5	Condensate cond rec	Relocate	4	9	5
196	RP-9	Computer printer	Replace	4	8	1990
199	RP-9	Computer printer	Install	4	8	1990
204	CC-3	Stm Dp. Rlf Vlv cntl	Demarcate	3	8	4
205	CC-3	Vital bus modules	Demarcate	4	8	4
211	CC-3	Generator indicators	Label	4	8	4
213	CC-3	500kv group bus sw.	Remove	4	8	4
225	RP-1	SW vlv position ind.	Remove	4	9	5
232	RP-1	Liquid waste vlv cntls	Demarcate	4	8	4
242	RP-1	CCW HX isol ind.	Remove	4	9	5
243	RP-1-9	Cntl legend light ind.	Change	4	9	5
247	RP-2	Vessel vent vlvs cntls	Replace	4	9	5
248	RP-3	Camera select cntls	Remove	4	9	5
260	Generic	Cntl legend light ind.	Replace	2	9	5
280	RP-3	Timer	Remove	4	9	5
297	CC-3	Screen well DP meter	Scale	4	9	5
298	CC-3	Condensate Pp meter	Scale	4	9	5
299	CC-3	Cond hotwell lvl mtr	Scale	4	9	5
300	CC-3	Base adjust out mtr	Scale	4	9	5
303	CC-3	Diesel gen amp meter	Scale	4	9	5
304	CC-3	Gen Pf meter	Scale	4	9	5
305	CC-3	Gen H2 purity meter	Scale	4	9	5
306	CC-3	Turbine trip pb	Separate	2	1987	4
309	CC-3	Speed channel ind.	Change	4	8	4
325	RP-5	Fire prot legend ind.	Standardize	4	9	5
342	RP-5	Fire prot legend ind.	Replace	4	1984	1985
350	RP-5	Unit load recorder	Relocate	4	9	5
356	RP-4	Hot & cold leq recs	Scale	2	1986	1986
371	RP-4	Stm gen level rec	Demarcate	4	8	4
375	RP-4	Tide level recorder	Scale	4	9	N/A
384	RP-4	Overpower recorder	Label	4	8	4
385	RP-4	Overpower recorder	Label	4	8	4
389	RP-4	Stm gen level rec	Scale	4	8	4
406	RP-7	kW I/O demand recs	Label	4	8	4
407	RP-7	Power drawer vib rec	Replace	4	7	3

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HEDS TO BE CORRECTED

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HED	LOCATION	TOPIC	ACTION	CATEGORY	UNIT 1 OUTAGE	UNIT 2 OUTAGE
413	CC-2	RCS margin SAT rec	Scale	4	8	4
415	RP-9	Battery meters	Standardize	3	8	4
427	RP-7	kW I/O demand rec	Label	4	8	4
429	RP-7	Turbograf meters	Replace	4	7	3
455	RP-1	SW vlv position ind	Remove	4	9	5
467	207	Displays	Label	4	8	4
470	213	Pzr press meter	Scale	4	8	4
472	213	Pzr press meter	Scale	2	8	4
474	213	Stm gen level cntl	Z mark	4	8	4
477	213	AFW controls	Demarcate	4	8	4
478	213	C.R. AVS fan cntl	Relocate	4	8	4
481	213	Press/level cntls	Label	4	8	4
482	213	Meter labels	Label	4	8	4
484	213	Various controls	Label	4	8	4
492	Ann	POPS.RV head vents	Replace	4	9	5
494	Ann	Annunciator labels	Replace	4	9	5
498	Ann	Annunciator tiles	Replace	4	1983	1983
502	Ann	Annunciator controls	Replace	2	9	5
505	Ann	Annunciator controls	Replace	4	9	5
507	Ann	Console alarms	Replace	4	9	5
508	R Cptr	Strip chart rec	Scale	4	8	4
510	R Cptr	Strip chart rec	Shield	4	8	4
512	R Cptr	Strip chart rec	Label	4	8	4
519	CC-2	AFW ST meter	Banding	4	8	4
524	CC-2	FW heater meters	Scales	4	9	5
525	CC-2	SGFP/CVCS meters	Scales	4	9	5
525	CC-2	SGFP/CVCS meters	Scales	4	8	4
529	RP-4	Stm gen lvl recs	Scale	4	8	4
530	Ann	Alarm stent dbands	Widen	4	9	5
531	Ann	Digitrend alarms	Replace	4	9	5
533	Ann	Dual pmtr alarms	Replace	3	9	5
534	Ann	Many-input alarms	Replace	3	9	5
535	Ann	CW scrnwh alarms	Replace	4	9	5
536	Ann	Shared unit alarms	Replace	4	9	5
538	Ann	Priority alarms	Replace	3	9	5
542	Ann	Elec sys alarms	Replace	4	9	5
550	Generic	Illumination	Diffusers	4	10	6
556	Ann	Annunciator tiles	Replace	4	9	5
561	213	Stm gen meters	Label	4	8	4
562	RP-1.5	Tigraph recorders	Replace	4	9	5
563	RP-1	Tigraph recorders	Replace	4	9	5
566	RP-1	Tigraph recorders	Label	4	8	4
619	Generic	Labels	Standardize	4	8	4
620	Generic	Labels	Standardize	4	8	4
621	CC-2	Legend indicators	Standardize	4	8	4
622	RP-1	Tigraph recorders	Replace	4	9	5
627	CC-1	Cold leg flow meters	Scales	2	8	4
638	CC-3	Stm gen bdwn alarm	Relocate	2	9	5

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HEDS TO BE CORRECTED

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HED	LOCATION	TOPIC	ACTION	CATEGORY	UNIT 1 OUTAGE	UNIT 2 OUTAGE
645	CC-1	Cooldown recirc meter	Label	4	8	4
651	CC-3	EH turbine cntl pnl	Change	4	8	4
653	RP-2	Conductivity rec	Scale	4	8	4
654	CC-2	Stm gen meter	Label	2	8	4
655	CC-2	SGFP speed demand	Scale	4	9	5
656	CC-1	Cntmt sump meter	Scale	4	8	4
658	Generic	Labels	Standardize	4	8	4
667	Generic	General layout	Redesign	4	10	6
674	Generic	Legend pushbuttons	Replace	2	8	1986
675	Generic	Legend pushbuttons	Inserts	2	8	4
676	CC-2	Rapid Bn vlv pb	Remove	2	7	4
680	Generic	Legend pushbuttons	Engrave	4	8	4
699	Ann	NSSS tilt alarm	Remove	4	9	5
710	Ann	Console alarms	Replace	4	9	5
714	Ann	Console alarms	Replace	4	9	5
715	Ann	Panel F alarm	Replace	4	9	5