

PDR

MAR 15 REC'D

# Duquesne Light Company

One Oxford Centre  
301 Grant Street  
Pittsburgh, PA 15279

JOHN M. ARTHUR  
Chairman of the Board and  
Chief Executive Officer

March 9, 1983

Mr. James R. Tourtelotte  
Chairman  
Regulatory Reform Task Force  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Tourtelotte:

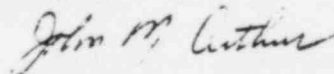
In response to your letter of February 8, we agree that backfitting of nuclear plants is a significant problem that must be solved. The information you requested regarding backfitting has been prepared by our Nuclear Division and represents a significant increase in the total cost of the Beaver Valley Unit No. 1 project.

Beaver Valley Power Station Unit No. 1 consists of a Westinghouse PWR nuclear unit with a maximum dependable capacity of 810 MWe. The unit was 100% commercial on April 1, 1977. Total cost of the plant at the time of initial licensing on January 30, 1976 was \$603 million.

We have spent a total of \$281 million on backfitting through July, 1982. These costs can be categorized as \$88 million for Nuclear Regulatory Commission imposed backfits, \$115 million for TMI lessons learned backfits and \$78 million for utility initiated backfits, some of which were required to comply with regulatory agencies other than NRC. It is anticipated that an additional \$50 million will be required to complete work on NRC imposed backfits.

Also, attached for your information is the listing of TMI and NRC based backfits and associated dollars.

Sincerely yours,



Attachment

# Attachment

## NRC-Imposed and TMI Backfitting

### DESIGN CHANGES

DOC NO.	DESCRIPTION	CHG NUM	CHG DATE	ENG DESIGNED	ENG CHECKED	ENG APPROVED	DESIGN TYPE	DESIGN NO.	DESIGN REV	DESIGN DATE	DESIGN COST	DESIGN STATUS	DESIGN REMARKS	DESIGN NO.
12	AUXILIARY REMOVAL OF DELAY HEAT FOR LOGS OF SCREEN IN CORE	N/A	N/A	NA	SES 47	SES 47	SES 47	SES 47	SES 47	14-MAY-77	809	COMP	TEMPORARY INSTALLATION ONLY; NOW REMOVED AND REPLACED WITH ORIGINAL; NO RECORDS UPDATE REQUIRED	213
35	ADD ADDITIONAL ISOLATION VALVE IN AIRLOCK	N/A	NA	NA	SES 47	SES 47	SES 47	SES 47	SES 47	14-MAY-77	809	COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG 147	117
38	INSTALL A SEISMIC SUPPORT ON EXCESS LEIDMAN CONTROL VALVE	N/A	NA	NA	SES 47	SES 47	SES 47	SES 47	SES 47	24-MAY-76		COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG 147	120
52	INSTALL TEMPERATURE INDICATORS FOR SURVEILLANCE TUBE	N/A	NA	NA	SES 45	SES 45	SES 45	SES 45	SES 45	21-MAY-76		COMP	SENT FOR RECORDS UPDATE	132
56	INSTALL A PAIR PARTY IN MEMBER CUBICLE	N/A	NA	NA	SES 48	SES 48	SES 48	SES 48	SES 48	29-AUG-81		COMP	RECORDS SENT TO DEC ON 5/11/87	136
62	CHANGE ACTIV TEST STROKE LIMIT SWITCHES	N/A	NA	NA	SES 21	SES 21	SES 21	SES 21	SES 21	12-JAN-77	687	COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG 147	142
66	REPLACE 48V CIRCUIT BREAKER RELAYS	N/A	NA	NA	SES 37	SES 37	SES 37	SES 37	SES 37	4-SEP-77	358	COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG 147	146
71	REPLACE EXISTING SEISMIC FAULT RECORDER WITH NEW DESIGN	N/A	NA	NA	SES 45	SES 45	SES 45	SES 45	SES 45	30-MAY-77	11,135	COMP	SENT FOR RECORDS UPDATE	151
72	MODIFY ENVIRONMENTAL ALARM PANEL TO BE ABLE TO RECEIVE ADDITIONAL ALARMS IN CUMULUS ROOM	N/A	NA	NA	SES 32	SES 32	SES 32	SES 32	SES 32	25-MAY-77	15,981	COMP	RECORDS SENT TO DEC ON 5/11/87; RECORDS 141 & 37	152

LOW DATE 25-FEB-83

BOULDER LIGHT COMPANY  
BEAVER VALLEY POWER STATION - UNIT 1

PAGE 14

DESIGN CHANGE STATUS LIST

IN ORDER OF BASIS

DCP NO.	DESCRIPTION	SR NUM	COR ENG	ENG INST	SYS	DCP TYPE	FSM CHG	FSR REV	TS CHG	HS REV	BAS	SEED	\$ COST	RP ACCEP DATE	INITIAL AUTHN.	CHG STAT	REMARKS	FILE NO.
73	ADD AIR CONDITIONING TO GUARDHOUSE	N/A	NA	MED SMC	75	NSR	NO			C	NRC	C	38,703	28-JUN-79	J01863	COMP	RECORDS SENT TO DEG ON 5/17/85	150
75	ADD COMMUNICATION THROUGH GLASS IN GUARDHOUSE	N/A	NA	MED COM	40	NSR	NO			C	NRC	C		1-MAR-77		COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG0127	155
83	MODIFY UNINTERRUPTABLE POWER SUPPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS	N/A	NA	MED SMC	38 37	SR	NO			C	NRC	C		23-FEB-77	C09642	COMP	RECORDS TRANSMITTED TO ENGINEERING 9/18/78	163
94	AUTOMATIC CHANGEOVER TO RECIRCULATION ON LOW HEAD SAFETY INJECTION PUMPS	N/A	NA	MED COM	81 11	SR	COMP	0		C	NRC	C	1,068,472	5-MAR-80	C07797	COMP	RECORDS SENT TO DEG ON 5/17/83	173
98	MODIFY RATH STEAM TRIP VALVES TO REDUCE DISC FLUTTER	N/A	NA	MED SMC	21	SR	NO			C	NRC	C	356	29-OCT-77		COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG0147	177
101	MODIFY SA-10 STATE PROTECTION SYSTEM PER WESTINGHOUSE RECOMMENDATIONS	N/A	NA	MED SMC	81	SR	NO			C	NRC	C		19-DEC-76		COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG0147	179
107	ADD ORIFICES TO RECIRCULATION SPRAY HEAT EXCHANGER DRAIN VALVES	N/A	NA	MED NA	NA	SR	COMP	0		C	NRC	C	198	17-AUG-78		COMP	RECORDS TRANSMITTED TO ENGINEERING 9/18/78	186
115	ADD TRITIUM SAMPLING IN GASEOUS WASTE	N/A	NA	MED NA	19	SR	COMP	0		C	NRC	C	1,843,353	9-MAY-78	C09195	COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG0146	192
116	REACTOR PLANT BW FLOW INDICATION	246	N/A	MED COM	30	SR	YES				NRC	30	11,125		C02236	ACTV	SAFETY EVALUATION PERFORMED AND DESIGN CONCEPT HAS BEEN APPROVED/DCP 115 REQUIRES AN OUTAGE - THE RW DA NEEDS TO BE DRAINED	1
117	CHANGE FEED REG. VALVE TRIM	N/A	NA	SES SMC	24	NSR					NRC	C				COMP	SENT FOR RECORDS UPDATE	193
118	ADD TURBINE MANUAL TRIP ALARM	N/A	NA	SES SMC	26	NSR					NRC	C				COMP	RECORDS SENT TO MED ON 4/1/83	194
119	"A" FEEDWATER LINE SHUTTER MODIFICATIONS	N/A	NA	MED SMC	24	SR	NO			C	NRC	C	475	18-APR-77		COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG0147	195
120	"B" AND "C" FEEDWATER LINE SHUTTER MODIFICATIONS	N/A	NA	MED SMC	24	SR	NO			C	NRC	C	289	18-APR-77		COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG0147	196
121	VARIOUS SHUTTER AND SUPPORT MODIFICATIONS	N/A	NA	MED SMC	VAR	SR	NO		X	C	NRC	C		18-APR-77		COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG0147	197
124	REMOVE EMERGENCY DIESEL GENERATOR LOSS OF FIELD TRIP	N/A	NA	SES SMC	NA	SR	NO			C	NRC	C		26-FEB-77		COMP	RECORDS TRANSMITTED TO ENGINEERING VIA ENG0147	200







## DESIGN CHANGE STATUS LIST

## IN ORDER OF BASIS

B27 NO.	DESCRIPTION	SNR MIN	COOR ENR	ENR INST	SYG TYPE	B27 TYPE	FCM CHA	FCM IS	REV	REV	MS	SOUR	SCost	UP ACCEPT DATE	INITIAL AUTHR.	ENR STAT	REMARKS	ICL MIN
256	REPLACEMENT OF CABLES FOR CABLE SEPARATION	126	NA	NEB COM	75	SR	NO				C	MFC	C	25-MAY-80	C01737	COMP	RECORDS SENT TO O&G ON 5/14/81	311
257	MODIFICATIONS REQUIRED BY IE BULLETIN 79-82	127	NA	NEB COM	VAR	SR	NO				C	MFC	8,379,384	1-DEC-80	C00801	COMP	RECORDS SENT TO O&G ON 5/14/81	312
259	EE MODIFICATIONS TO INSIDE RECIRCULATION SPRAY NOZZLES	129	NA	NEB SPC	13	SR	NO				C	MFC	C	163 12-JUL-79		COMP	RECORDS TRANSMITTED TO ENGINEERING VIA CR-4216 102 10/20/77	314
263	CHANGE-OUT 4168-400V TRANSFORMERS (EMERGENCY) C.E. TRANSFORMER REPLACED WITH IFE	133	NA	NEB COM	37	SR	COMP				C	MFC	C	1-APR-79	C00804	COMP	RECORDS SENT TO O&G ON 5/14/81	317
265	(1N1) 191P ROPS (AUTO) FOR SMALL PIPE BEAMS	135	NRH	NEB COM	11	SR		YES							C02229	ACTV	AWAITING RESULTS OF DUL/MFC LOT 1 TEST (L.J.) PER EN 16518, CHANGED TO 3K PER JPS MSG 11/23/81	18
268	FIRE PROTECTION MODIFICATIONS	365 138	NRH	NEB COM	33	SR	YES	YES			MFC	M	17,502,678		C00613	ACTV	APP. 8 CONTROLLED ENTRY REMAINS	447
268-1	1 FIRE PROTECTION ROPS (ITEMS 1, 2A, 2C, 3B, 6, 11, 13, 15, AND ECH-243-34-DEC) EX 1A, 4, 4A, 5, 6, 18	365 138	NRH	NEB COM	33	SR	YES	YES			MFC	C		3-OCT-80		ACTV		568
268-2	2 REPAIR DAMAGED CABLE (ECH 268-243-DEC) EX 25	365 138	NRH	NEB COM	33	SR	YES	YES			MFC	C		28-DEC-80		ACTV		569
268-3	3 SMOKE DETECTORS (ITEMS 5A, 7, 8A, 9A2, 18C) EX 2, 7, 13, 19, 14	365 138	NRH	NEB COM	33	SR	YES	YES			MFC	C		3-FEB-81		ACTV		570
268-4	4 FIRE PROTECTION (ITEMS 2B, 4, 5B, 9A3, 9B, 9C, 18A, 18B, 18C, 18D, 18E, 13, 19) EX 3, 7, 11, 12, 16, 17, 18, 19, 20, 21, 23, 24	365 138	NRH	NEB COM	33	SR	YES	YES			MFC	C		25-FEB-81		ACTV		572
268-5	5 FIRE BARRIERS IN SERVICE HALL EX 22	365 138	NRH	NEB COM	33	SR	YES	YES			MFC	C		13-FEB-81		ACTV		573
268-6	6 SMOKE DETECTORS 879, 88A, 88B, 88C (ECH 268-413-DEC) EX 28	365 138	NRH	NEB COM	33	SR	YES	YES			MFC	C		26-MAY-81		ACTV		574
268-7	7 FLOW SWITCH FS-1P-757 (OPEN ITEM 62251) ADDITIONAL WORK PER MSG 238; INSULATING TUBING SUBSTITUTION PER EN 70455 (OPEN ITEM 4832) EX-27, 27, 28	365 138	NRH	NEB COM	33	SR	YES	YES			MFC	C		15-JUL-82		ACTV		575
268-8	8 ALL EMERGENCY LIGHTING OUTSIDE OF CONTROL ROOM (ITEM 3) EX 35	365 138	NRH	NEB COM	33	SR	YES	YES			MFC	C		16-JUN-82		ACTV		576



## DESIGN CHANGE STATUS LIST

IN ORDER OF BASIS

DCP NO.	DESCRIPTION	ENR NUM	CON ENR	ENR INST	SYS	DCP TYPE	FSAR CHK	FSAR REV	TS CHG	REV	WAS	CONC'D	\$Cost	OP ACCEPT DATE	BUDGET AUTHN.	ENR STAT	REMARKS	REL NUM
207	EVALUATION OF PG-6 ON 2" (51-36)	157	NA	MED ENG	10	SR	NO			C	MRC	C	158			COMP	RECORDS TRANSMITTED TO ENGINEERING VIA CM242	336
290	480V THERE WAS VOLTAGE IMPROVEMENT	157 238	FPB	MED CON	36	SR	NO		NO		MRC	C	2,738,522	18-MAY-82	CD1749	ACTV	TRAIN "A" COMPLETE (3/18/82); TRAIN "B" COMPLETE (5/18/82); OPEN ITEMS FOR JR	04
292	(TNI) PRESSURIZER SAFETY AND RELIEF VALVE POSITION INDICATOR	161	CON	MED CON	06	SR	YES				MRC	C	815,389		CD1296	COMP	OPEN ITEMS NEED TO BE COMPLETED	340
293	(TNI) SURVIVED MARGIN METER (MUREG-8570)	162	NA	MED CON	06	SR	COMP	0		C	MRC	C	376,285	7-OCT-80	CD1242	COMP	RECORDS SENT TO DEG ON SET1013	341
294	(TNI) CHMT 12 CONCENTRATION MTD (MUREG-8570)	163	MO	MED CON	47	SR	YES		YES		MRC	C	2,920,803		CD1250	COMP	RECORDS UPDATE REQUIRED; OPEN ITEMS REMAIN	47
295	(TNI) RES VENT (MUREG-8570)	164	FPB	MED CON	06	SR	YES		YES		MRC	C	2,072,132	5-JUN-82	CD1175	ACTV	WORK COMPLETE EXCEPT FOR KEY LOCK CHANGE OUT; OPERATION OF SIS STILL REQUIRES MRC APPROVAL; PARTIAL RECORDS PACKAGE SENT	40
296	(TNI) EMERGENCY RESPONSE FACILITIES (MUREG 8576)	289 310	ENR	MED CON	75	MSR					MRC	C	13,748		CD1324	ACTV	DESIGN CONCEPT APPROVED	11
297	(TNI) CHMT WIDE RANGE PRESSURE	166	NA	MED CON	12	SR	COMP	0	YES	C	MRC	C	339,819	30-JAN-81	CD1240	COMP	RECORDS SENT TO DEG SIS 1813	12
298	(TNI) CHMT SUMP LEVEL INSTRUMENTATION	167	NA	MED CON	12	SR			YES	C	MRC	C	504,535	4-APR-81	CD1241	COMP	SENT RECORDS TO DEG	13
299	(TNI) UPGRADE AUX FW TO SAF CODE (MUREG 8570) PART 3 (PLAN)	168 326	NA	MED CON	24	SR	YES				MRC	C	565,634		CD1297	COMP	RECORDS SENT TO DEG ON SET12293	14
303- 2	INCREASE RANGE OF RAD NUM	172	FPB	MED CON	43	SR	YES		YES		MRC	C	3,499,569	1-JUL-82	CD1325	COMP	REQUIRES RECORD UPDATE	5-4
303- 3	INCREASE RANGE OF RAD NUM	172	FPB	MED CON	43	SR	YES		YES		MRC	C		1-JUL-82	CD1261	COMP	REQUIRES RECORD UPDATE	5-5
303- 4	INCREASE RANGE OF RAD NUM	172	FPB	MED CON	43	SR	YES		YES		MRC	C		1-JUL-82	CD1261	COMP	REQUIRES RECORD UPDATE	5-6
303- 1A	INCREASE RANGE OF RAD NUM	172	FPB	MED CON	43	SR	YES		YES		MRC	C		1-JUL-82	CD1261	COMP	REQUIRES RECORD UPDATE	5-8
304	LOW-LOW LEVEL ALARM ON PWS (TNI)	173	NA	MED CON	13	SR	YES		NO		MRC	C	18,890	18-JUN-82	CD2076	COMP	RECORDS SENT TO MED ON SET 02635	15



### DESIGN CHANGE STATUS LIST

REF	NO.	DESCRIPTION	SM	CMR	ENR	DYS	WTP	FSM	FSAR	IS	REV	MS	SOEL	SCost	W	ACCEPT	BUDGET	ENR	STAT	REMARKS
			NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
345		MHC IE VAL 79-14 (HANGER MODIFICATIONS)	174	NA	MED	75	SR	YES	YES	YES		MHC	C	16,647,179	5-JUN-82	CH107	COMP	RECORDS SENT TO MCB; SA 345-18 OF ACCEPT 5 JUN 82; SR 345-11 OF ACCEPT 5 JUN 82		
345-18		MHC IE VAL 79-14 (HANGER MODIFICATIONS) (28)	174	NA	MED	75	SR	YES	YES	YES		MHC	C		5-JUN-82		COMP			
345-11		MHC IE VAL 79-14 (HANGER MODIFICATIONS) (28)	174	NA	MED	75	SR	YES	YES	YES		MHC	C		5-JUN-82	CH137	COMP			
346		UPGRADE RCS AND STEAM GENERATION LEVEL TRANSMITTERS	175	NA	MED	16	SR	COMP				MHC	C	12,840		CH168	COMP	RECORDS SENT TO MCB ON SET#072		
348		CONV PUMPS - ADD FLOW INSTR.	180	NRN	MED	16	SR	YES				MHC	C	32,925	4-JUN-82	CH223	COMP	REQUIRES RECORDS UPDATE		
349		INSTALL PRESS SWS TO TRIP STM SUPPLY VALVES	180	NRN	MED	18	SR					MHC	IR	49,939		CH231	ACTV	RELATES TO IR 04-5; ENGINEERING COMPLETE, PARTS ON ORDER, WILL BE MOVED 5-8-73		
349		(TRN) MHC REQUIREMENTS PER MORG-4570, ITEM 2.2.2.3 FOR INJECTION TECH SUPPORT CENTER	211	NA	MED	75	NSR	COMP				MHC	C	762,711		CH179	COMP	RECORDS UPDATE SENT TO MCB		
349		REROUTE NON-AC1010 INJECTION LEADS UNDESIRABLE	190	NA	MED	21	SR	NO	NO	NO		MHC	C	31,001	8-JUN-82	CH207	COMP	RECORDS SENT TO MCB ON SET #2662		
349		TERMINATE RELEASES ON FAILURE OF EFFL. MON.	191	FTP	MED	45	SR					MHC	C	1,149			ACTV	TEMP FIX DONE - AWAIT DESIGN VALUE		
349		MUCH-PATISON SMOOTHER REPAIR	192	NA	MED	75	SR	NO	NO	NO		MHC	C				COMP	RECORDS SENT TO MCB ON SET#69 TO FIA M7 SMOOTHER 44 DURING 28 JULY 82, 0115. H.		
349		(TRN) PUC1 ACCIDENT SAMPLING SYSTEM	193	CMR	MED	14	SR	YES	YES	YES		MHC	THU	3,736,119	7-JUL-82	CH1243	ACTV	CON WORKING OPEN ITEMS		
349		END PUMP DISBURSE RELIEF VALVES	197	NAO	MED	11	SR	YES	YES	NO		MHC	C	23,533	4-JUN-82	CH1751	COMP	RECORDS UPDATE REQUIRED		
349		(TRN) EMERGENCY RESPONSE FACILITY STRUCTURE	210	NRN	MED	57	NSR					MHC	THU	12,033,074		CH132	ACTV	WORK IN PROGRESS		
349		REPAIR WIND TO SUPPORT REMOVAL OF B/P SMOOTHER	212	NA	MED	75	SR	NO	NO	NO		MHC	C		9-JUL-88		COMP	RECORDS SENT TO MCB ON SET#43		
349		RE-NC UC	224	NA	MED	75	SR	NO	NO	NO		MHC	C				COMP			

## DESIGN CHANGE STATUS LIST

IN ORDER OF PASTIS

DEF NO.	DESCRIPTION	SAV NO.	CDM NO.	ENGR NO.	INT SYS	TYPE	DC	FSAR	TS	QTS	MAS	SCHD	\$Cost	1ST ADPT DATE	MINUT AUTH.	ENGR STAT	REMARKS	ALL NO.
333	(121) REACTION VESSEL LEVEL INSTRUMENTATION	214	FIP	MEB 16	SR	YES	YES	YES	YES	YES	MRC	THRU 4,700,258			CH1328	ACTV	DESIGN CONCEPT APPROVED	24
333-1	(121) REACTION VESSEL LEVEL INSTR. (28)	214 247	FIP	MEB 16	SR	YES	YES	YES	YES	YES	MRC	C		1-JUL-82	CH1328	ACTV	SR-1 P-COMPLETED DURING 28	306
335	OVERSIGHTED FLOOR BEAMS IN CABLE SPREADING ROOM	216	NA	MEB 75	SR	NO	NO	NO	NO	NO	MRC	C		12-AUG-88	CH1397	COMP	RECORDS SENT TO DES. ON 5/10/88	368
337	P.S. AUTO-LOAD SEQ PNL PROGRAM TYPERS MID	218	NA	MEB 34	SR	NO	NO	NO	NO	NO	MRC	C	110,839	21-MAY-82	CH2877	COMP	RECORDS SENT TO M.D. 6/31/82	25
341	PRIMARY WATER STORAGE TANK OVERFLOW COLLECTION PIPING	222	NA	SES 18	NSR	NO	NO	NO	NO	NO	MRC	C			CM	CMC		364
345	(121) WARNING SYS FOR ENRG PLANNING ZONE	227 323 354	ENR	MEB 75	NSR	NO	NO	NO	NO	NO	MRC	THRU 4,008,659			CH1321	ACTV	MED RECORDS PASTIS ASSIGNED THIS WEEK AS NOT CORRECT AS OF 1/12/83	44
348	REINFORCED LINE TO 38 INCH W-17	238	NA	MEB 38	SR	YES	YES	YES	YES	YES	MRC	C	339,939	27-MAY-82	CH2228	COMP	RECORDS SENT TO M.D. ON 5/1/82	28
351	IED 79-81F - ENVIRONMENTAL QUALIFICATION		FIP	MEB 16	SR	YES	YES	YES	YES	YES	MRC	THRU 1,940,871				ACTV	38 ITEMS: (1) RCS W/ 410'S; (2) BARTON TRANSDUCERS; (3) MPO OPERATOR; (4) LUC'S; (5) SOPS; (6) PARATHION TERMINAL RULES	541
351-1	1 IED 79-81B (CH-P-1A) NIB SPLICE	233 317	FIP	MEB 87	COM	YES	YES	YES	YES	YES	MRC	C		17-MAR-82	CH1325	ACTV		540
351-2	2 IED 79-81B (CH-P-1B) NIB SPLICE		FIP	MEB 87	COM	YES	YES	YES	YES	YES	MRC	C		16-JUN-82	CH1325	ACTV		547
351-3	3 IED 79-81B (CH-P-1C) NIB SPLICE	233 317	FIP	MEB 87	COM	YES	YES	YES	YES	YES	MRC	C		17-MAR-82	CH1325	ACTV		548
351-4	4 IED 79-81B (CH-P-3A, 3B) NIB SPLICE	233 317	FIP	MEB 24	COM	YES	YES	YES	YES	YES	MRC	C		17-MAR-82	CH1325	ACTV		551
351-5	5 IED 79-81B (CH-P-1A, 1B) NIB SPLICE	233 317	FIP	MEB 11	COM	YES	YES	YES	YES	YES	MRC	C		17-MAR-82	CH1325	ACTV		552
351-6	6 IED 79-81B (CH-P-1A, 1B) NIB SPLICE	233 317	FIP	MEB 13	COM	YES	YES	YES	YES	YES	MRC	C		17-MAR-82	CH1325	ACTV		553



DESIGN CHANGE STATUS LIST

IN ORDER OF DATES

DCP NO.	DESCRIPTION	CDR NO.	CODE	CHG INST	SYS	DCP TYPE	FSM IS	813	BAS	SCRS	\$Cost	UP ACCEP	BUDGET	CHG	STAT	REMARKS	ALL
												DATE	AUTH.				MS
357	(UNIT) SITE RADIATION MONITORS (1902)	241	EW	MD	43	MSR	YES	NO	MC	MC	488,657		C01394	ACTV	ACTV	ALL 16 MONITORS INSTALLED, CALIBRATION COMPLETE	81
358	(UNIT) ENHANCE INSTANTANEOUS AIR SUPPLY	244	NA	SES	34	MSR	YES	NO	MC	C	0.00			COMP	COMP	RECORDS SENT TO MED ON 01/12/83	374
359	INSTANT PRESSURE GAUGE BETWEEN DIESEL VALVES AND EXCHANGE OF LINE PUMPS	247	NA	SES	11	MSR	YES	NO	MC	C	0.00	12-SEP-80		COMP	COMP	RECORDS SENT TO DEC ON 01/16/83	376
362	(UNIT) HYDROGEN RECOMBINER SHIELDING MOD	258	NA	MD	46	SR	YES	NO	MC	MC	643,308	28 MAY-82	C02872	COMP	COMP	SENT FOR RECORDS UPDATE	36
363	(UNIT) REMOTE OPERATION OF VALVE (11A-91)	251	MR	MD	34	SR	YES	NO	MC	MC	213		C02227	ACTV	ACTV	REQUIRES RECORDS UPDATE	378
364	REMOTE OPERATION OF CHARGING PUMP VALVES	252	NA	MD	07	SR	YES	NO	MC	C	8,672		C02228	COMP	COMP	CANCELLED	38
366	(UNIT) EMERGENCY RESPONSE FACILITY CAR 1 INTERREL EQUIPMENT	253	EW	MD	57	SR	YES	NO	MC	MC	7,691,488		C01324	ACTV	ACTV	DESIGN CONCEPT APPROVED	32
372	REMOVE 51 AUTO CLOSURE SIGNAL FROM IEP	263	FTP	MD	11	SR	YES	NO	MC	C	4,874			ACTV	ACTV	APPROVED FOR DESIGN CONCEPT DEVELOPMENT; Awaiting Decision	63
374	AUX FD PP CTRL LOGIC TO PREVENT START AT LO PWR	266	FFP	MD	24	SR	YES	NO	MC	C	61,472	21 MAY-82	C02268	ACTV	ACTV	NEW DESIGN CONCEPT ISSUED NOT YET APPROVED YET	34
376	SUPPORTS ON SAFETY RELATED HPVS AND LPVS MACHINE CONTROLS	268	NA	SES	09	SR	YES	NO	MC	C	0.00	21-OCT-82		COMP	COMP	RECORDS SENT TO DEC ON 01/16/83	366
378	REPLACE LIQUID WASTE MOTIONS COOLER (LW-E-4)	305	MR	SES	17	MSR	YES	NO	MC	MC	21,527		C03186	ACTV	ACTV	D.C. APPROVED 11/28/81, AFFILIATED BY MC	82
388	MODIFY D-RAT SUPPORT ON REGENERATIVE IO	275	NA	MD	07	SR	YES	NO	MC	C	0.00	11-MAR-82	DLN	COMP	COMP	RECORDS UP-DATE INITIATED	35
387	MODIFY CONTROLLER ON RS-3	282	NA	SES	13	MSR	YES	NO	MC	C	0.00	18-MAR-84		COMP	COMP	RECORDS SENT TO DEC ON 01/16/83	393
388	RELOCATE TV MOUNTING TO MS BR	283	NA	MD	21	SR	YES	NO	MC	C	381,821	7-JUL-82	C02812	COMP	COMP	RECORDS SENT TO MED ON 01/16/83	36
398	B.C. FUEL TANK MODS	295	GM	MD	36	SR	YES	NO	MC	MC	2,063		C02245	ACTV	ACTV	PRELIM. DESIGN CONCEPT TO STATION	37
393	CAT 1 CALL ROUTINE VERIFICATION	289	NA	MD	45	SR	YES	NO	MC	C	4,940	4-JUN-82		COMP	COMP	RECORDS SENT TO MED ON 01/16/83; NEW 02/11/83 RECORDS COMPLETE	79

## DESIGN CHANGE STATUS LIST

IN ORDER OF PAGES

DCP NO.	DESCRIPTION	CHG NUM	CHG ENR	ENR INST	SYS	DCP TYPE	FSM CHG	FSM REV	TS CHG	QPS REV	BAS	GOBLD	\$Cost	UP ACCEPT DATE	BUDGET AUTHOR.	ENR STAT	REMARKS	REL NUM
354	1 (TMI) REDUNDANT POWER SUPPLY FOR HLT SYS	298	NA	MED CON	45	NSR	YES				MRC	C	575,289	7-SEP-82	081853	COMP	RECORDS SENT TO MED	39
386	PAGE PARTY SYSTEM MODIFICATION	292 274	NA	SES SNC	48	NSR	NO			C	MRC	C		9-MAR-81		COMP	RECORDS SENT TO G&W ON SET 11125	376
397	UPGRADE PIKE SHOCK RECORDER XR-ER101	293	MO	MED CON	C	NSR	NO		NO		MRC	JR	10,512		082284	ACTV	DESIGN CONCEPT APPROVED	40
398	(TMI) TECH SUPPORT CTR SUBSTATION	295	EW	MED CON	36	NSR					MRC	13W	1,675,143		082327	ACTV	DESIGN CONCEPT APPROVED	41
399	PRESS SMC ON PZR SAFETY RELIEF VALVES	296	NA	MED CON	84	SR	NO				MRC	C	11,670	29-MAR-80	082026	COMP	RECORDS SENT TO G&W ON SET 11187	42
400	(TMI) UPGRADE BWS METEOROLOGICAL SYSTEMS PER REG. GUIDE 1.23, REV. 1	297	EW	MED CON	67	NSR	YES		NO		MRC	13W	163,337		082209	ACTV	DESIGN CONCEPT APPROVED	397
401	MODIFY 110 A/C RELAYS INSTALLED BY DCP 249	302	EW	MED CON	36	SR					MRC	18	681			ACTV	APPROVED FOR DESIGN CONCEPT DEVELOPMENT	101
407	(TMI) MODIFICATION OF SUBLOADING MARGIN LIMIT	303	NA	SES CON	84	NSR	NO		NO		MRC	C		10-JUN-82	082292	COMP	RECORDS SENT TO MED ON SET 12692	104
408	AUTO ISO OF BROKEN BLOWDOWN LINES (PERN FIX)	304 324	EPW	MED CON	25	SR	YES		NO		MRC	C	4,671,117		082011	ACTV	CONDITIONAL ACCEPT MARKING WHEN LINES; SR 8 NOT TURNED ON	46
411	EXPANSION FOR HDB650 SYSTEM (BOSE ACCESS AND PLUMB FOLLOW)	309	NA	MED CON	57 25	NSR	NO		NO		MRC	C				CANC	CANCELLED PER BWS:JES:216; INCORPORATED INTO DCP 394	401
412	NO GO TEST CIRCUIT FOR TESTING SAFETY INJECTION AUTO CHAMBER SYSTEM	312	EW	MED CON	11	SR					MRC	JR	8,090		082293	ACTV	DESIGN CONCEPT TO STATION; CHANGED TO 3" PER JIS REC 11 201	408
417	(TMI) LOCKOUT CIRCUIT FOR PIRGE ISOLATION SAMPLES	321	NA	MED CON	44	SR	NO		NO		MRC	13W	1,712		082282	CANC	CANCELLED PER BWS:JES:132	413
418	RE-EVALUATION OF PIPING GAWG SUPPORTS	322	NRN	MED CON	VAR	SR	NO		NO		MRC	18	1,919,078		082295	ACTV	ADDITIONAL MODIFICATIONS TO BE PERFORMED	414
418	1 RE-EVALUATION OF PIPING GAWG SUPPORTS (2K)	322	NRN	MED CON	VAR	SR	NO		NO		MRC	C		17-MAY-82		COMP	RECORDS PACKAGE TO BE ASSEMBLED UPON COMPLETION OF ADDITIONAL MODS	507
422	PROVIDE FILTERED COOLANT TO FP P-1 MOTOR	332	NA	MED CON	33	SR	NO		NO		MRC	C	1,120		082291	CANC	INCORPORATED INTO DCP 492	418
423	CHANGE SIZES ON 3" VILAN CHECK VALVES	334	NA	MED CON	87 11	SR	NO		NO		MRC	C	59,558	7-JUN-82	082306	COMP	RECORDS SENT ON SET 87557	419



## DESIGN CHANGE STATUS LIST

IN ORDER OF DATES

DCP NO.	DESCRIPTION	SR NUM	CDR ENR	ENR INST	SYS	DCP TYPE	FSAR CHG	FSAR REV	TS CHG	W/S REV	DAS	SCHED	\$Cost	UP ACCEPT DATE	BUCKET AUTH.	ENR STAT	REMARKS	ALL NUM
424	CONCRETE BLOCK WALL MODS PER IEN-00-11	336	NA	NEB CON	VAR	SR	NO		NO		NRC	C	2,987,724	4-JUN-82	CR2027	COMP	SENT FOR RECORDS UP-DATE	421
426	INSTALL PRESS SWS ON EACH PZR SAFETY RV'S	338	NA	NEB CON	86	SR	NO		NO		NRC	C	39,395	4-JUN-82	CR2203	COMP	RECORDS SENT TO MED ON SET #2696	421
427	PRIMARY PLANT VENTILATION IMPROVEMENTS	339	DAO	NEB CON	44	SR					NRC	IN	4,143			ACTV	APPROVED FOR DESIGN CONCEPT DEVELOPMENT	422
428	PT RC-403 RELOCATION	340	NA	NEB CON	86	SR	COMP	0			NRC	C	4,253	20-MAY-81		COMP	COMPLETE RECORDS SENT ON SET#1181	423
432	RIVER WATER RADIATION MONITOR SAMPLE LINES MOD	344	DAO	NEB CON	38	SR	YES		NO		NRC	IN	12,331			ACTV	DESIGN CONCEPT APPROVED	427
434	SAFETY INJECTION SYSTEM CHECK VALVE TEST RIGS (2)	346	NA	NEB CON	11	SR	YES		YES		NRC	C	41,345	4-JUN-82	CR2204	COMP	RECORDS SENT TO MED ON SET #2684	429
439	SIS WIRE REPLACEMENT	356	NA	SES SNG	VAR	SR	NO				NRC	C		18-JUL-81	CR2298	COMP	RECORDS SENT TO OEG ON SET#1386	434
442	EXHAUST DISCS IN VELAM 6" CTR VALVES	361	NA	NEB CON	11	SR	NO		NO		NRC	C	181,241	4-JUN-82	CR2309	COMP	RECORDS SENT ON SET #2757	437
443	REPLACE MVR RELAY IN D.C. AND/OR PUL		NA	NEB CON	36		NO		NO		NRC	C	38,031	29-APR-82	CR2385	COMP	RECORDS SENT TO OEG ON SET#2548	438
445	EMERGENCY TRIP SYSTEM CIRCUIT PROTECTION	364	FIP	SES SNG	81	NSR					NRC	IN				ACTV	MVR BLANCH ISSUED, SOME WORK PERFORMED; REFER TO DISCS:0293	448
446	CHARGING PUMP DISCHARGE ISOLATION VALVE TORQUE INCREASER	366	DAO	NEB CON	87	SR	NO		NO		NRC	SP	714		CR2281	ACTV	DESIGN CONCEPT APPROVED; PARTS ON SITE	441
453	AUX. STEAM SPRING TANKER MOD	378	NA	SES SNG	27	NSR					NRC	C		18-OCT-82		COMP	RECORDS SENT TO MED	452
467	RAD MONITORS CHECK SOURCE MODIFICATION	400	NA	SES	43	NSR	NO		NO		NRC	C				CANC	CANCELLED PER NOTES:0293	464
471	LIMITED WASTE SYSTEM MODIFICATION	404	NRH	NEB CON	17	NSR					NRC	SP	8,611			ACTV	DESIGN CONCEPT APPROVED, CHRG IN PROGRESS	468
475	RV-BLS-1A, N.C. MODIFY VALVE		NA	SES SNG	86						NRC	C				COMP	SENT FOR RECORDS UP-DATE WORK COMPLETED 7/27/81	472
477	(TNE) POWER SUPPLY FOR EMERG NOTIFICATION SYS. RELOCATION MOD		EW	SES SNG	48						NRC	C	06M			COMP	RECORDS UP-DATE PACKAGE MLDG TO BE ASSEMBLED	474

DESIGN CHANGE STATUS LIST

IN ORDER OF PAGES

DCY NO.	DESCRIPTION	CAJ MIN	COM ENR	ENR INVS	WSE SFS	DCY TYPE	FSAR CH	FSAR REV	TS CHG	RIV	NAS	SCOR	SCOST	BY ACCEPT DATE	DESIGN AUTH.	ENR STAT	REMARKS	ALL MIN
476	DESIGN GENERATOR AIR START COMPRESSORS CHECK VALVE CHANGE	314	DND	NEB CON	36	SR	NO	NO	NO		MRC	1H	643			ACTV	DESIGN CONCEPT APPROVAL	475
488	WALL MODIFICATION FOR LV-E-4 REPLACEMENT	418	NRH	NEB CON	17	SR					MRC	1H	924		C03186	ACTV	DESIGN CONCEPT APPROVAL 2/15/82; TO BE MARKED WITH SET 3F	477
481	WALL MODIFICATION FOR LV-E-1 REPLACEMENT	417	NRH	NEB CON	17	SR					MRC	1H				ACTV	SAR IS BEING PROCESSED	478
492	FIRE PROTECTION SYSTEM IMPROVEMENTS	648 177 332 373	NRH EON	NEB EON	33						MRC	1H	2,122			ACTV	PERFORM DURING INSU FROM TO SR	489
496	RADIO IMPROVEMENTS	458 457 518 526	EWV EON	NEB EON	75	NSR					MRC	1H	434		C02284	ACTV	EQUIPMENT ON ORDER	496
497	REMOTE VIB. RAD EXPOSURE RATE INSTR.	452	NA	NEB CON	13	SR	NO	NO	NO		MRC	1H	6,600			CMC	CANCELLED PER NOTICE 473	493
498	CHMT ATMOSPHERE SAMPLING STATION	465	CAH	SES EON	12	NSR					MRC	1H				ACTV	APPROVED FOR DESIGN CONCEPT DEVELOPMENT	497
502	PRESS/IMP GAGES FOR Q5 RD-1A, 1B	478	CAH	SES EON	13	NSR					MRC	1H				ACTV	APPROVED FOR DESIGN CONCEPT DEVELOPMENT	501
503	RAD MON AT CONDUIT E STEEL	475	EWV	SES EON	43	NSR					MRC	1H				CMC	REWORKING UPDATE. PRELIM. MEAS. ASSEMBLED	502
505	WEATHERING AIR COVER ADD TO T.S. 1116	484	NRH	SES EON	34	NSR					MRC	1H				ACTV	APPROVED FOR DESIGN CONCEPT DEVELOPMENT; MORE RESEARCH REQUIRED, REFER TO NOTICE 473	504
506	MOD TO COMPLY WITH MRC VOL 08 11	487	DND	SES EON	88	NSR					MRC	1H				ACTV	P.L.B. REVIEW	505
509	(TMS) FIRE PROTECTION SYS MOD (ERT) NEW/UPD: SUPPLY CONDUITATION	513	NRH	NEB CON	33	SR					MRC	1H	19,458		C02700	ACTV	CONSIDER WITH DC-331 AND 457; GAGE & INSULATION IN PARAGRAPHS, P.L.B. 06/11/81	508
511	PERMANENT BISC BRIP TET ON CS 23 A 27	516	NA	SES EON	35	NSR					MRC	1H		16-FEB-82		CMC	RECORDS SENT TO DMS ON 03/12/83	510
518	(TMS) EMERGENCY COMMUNICATIONS SYSTEM; CR/12/LUT/80E	515	EWV	NEB CON	75	NSR					MRC	1H	0831			ACTV		506

## DESIGN CHANGE STATUS LIST

IN ORDER OF BASIS

DCP NO.	DESCRIPTION	SR NUM	CONC ENR	ENR INST	SYS	DCP TYPE	FSAR CHG	FSAR REV	TS CHG	QVS REV	WAS	SCHB	\$Cost	OP ACCEP DATE	CHGAL NOTED	ENR STAT	REMARKS	REL NUM
520	AUX BULK COLUMN MOD ELEV 752'-6"	522	CON	MED CON	75	SR					MC	3P	941		003105	ACTV	DESIGN CONCEPT APPROVED	521
524	HYDROGEN RECOMBINER TRATER LEAD WIRE REPLACEMENT	543	FTP	MED SHG	46	SR					MC	3P	554			ACTV	INTEREST BEGINT, AWAIT MAT'L	525
529	(TND) DOMESTIC WTR FACILITY FOR ERF SITE	550	HRN	MED CON	53	NSR					MC	3P	26,000		002990	ACTV	ENR & INSTALLATION IN PROGRESS; PSR WRITTEN	528
530	REMOVAL PLUS UNIT FOR SECURITY COMPUTER	565	EWV	SES SHG	75	NSR					MC	C			002363	ACTV	WORK COMPLETE	529
531	RM CONTROL BOARD SEISMIC MOD	557	NA	MED CON	45	SR					MC	C	70,643	4-JUN-82		ACTV	SENT FOR RECORDS UPDATE	530
534	LIGHTED WASTE EFFLUENT MONITOR REPLACEMENT	451	HRN	SES SHG	17 43	NSR					MC	1N				ACTV	APPROVED FOR DESIGN CONCEPT DEVELOPMENT	534
535	WAREHOUSE EXT SPRINKLER HEAD MOD.	579 589	BAO	SES SHG	33	NSR					MC	WKC				ACTV	WMI RELATED	535
540	UNIT STA SERV TRF REPLAT	591	FTP	MED CON	36	NSR					MC	3V	4,597		002700	ACTV	MATERIAL CHANGE, REPLACE ON TRF-10/10	540
543	SIMULATOR TRAINING BUILDING	416	CON	MED CON	75	NSR					MC	3P			002701	ACTV	APPROVED FOR DESIGN CONCEPT DEVELOPMENT	543
548- 1	REPLACE 10AT TRACE CRT ET-113	647	EWV	MED CON	45	SR					MC	WKC			530.215	ACTV	MATERIAL CHANGE, TECH SPEC RELATED (WMI 10/10/82); ET-10.5A NOT DONE	547
548- 2	REPLACE 10AT TRACE CRT ET-113	647	EWV	MED SHG	45	SR					MC	C		24 SEP-82	530.215	ACTV	ET-10.5B (SR-2) DONE	548
553	F.P. (APP. R) - HALON SYSTEM FOR CAVEL TUNNEL	621	CON	MED CON	33 75	SR					MC	3R			002951	ACTV	SEE SERID FOR NOTIS/SEC/251	603
554	SECURITY LIGHTING BYPASS SWITCH INSTALLED	671	JPW	MED SHG	75	NSR					MC	C		23-DEC-82	524.114	COMP	RECORDS SENT TO MLD	613
555	TURBINE PAINTMENT FLOOR DRAIN SUMPS; BACK UP PUMPS	683	CON	MED SHG	41	SR					MC	4R			100591	ACTV	SEE SERID FOR NOTIS/SEC/251	614
556	F.P. (APP. R) - DIESEL GENERATOR START AND FIELD FLASH L&TS (4R) (E02950)	620	NA	MED CON	33 36	SR					MC	4R			002950	ACTV	SEE SERID FOR NOTIS/SEC/251	604

RUN DATE 25-FEB-83

INTEGRAL LIGHT COMPANY  
BEAVER VALLEY POWER STATION - UNIT 1

PAGE 28

MISSION CHANGE STATUS LIST

IN ORDER OR IN SITS

SCP NO.	DESCRIPTION	SCN NO.	CODE	ENR	INS	SCP TYPE	FSM	FSM	TS	Q13	MAS	SCN	SCOST	W/ ACCT/ BAI	W/ ACCT/ BAI	W/ ACCT/ BAI	W/ ACCT/ BAI	W/ ACCT/ BAI	W/ ACCT/ BAI
560	F.P. (IMP. B) - RELUCATE INV-BUILD SUPPLY TO A.S. EE-E-18	622	CM	MEB	33	SR	SR	SR	SR	SR	MEC	38							
561	F.P. (IMP. B) - CIRC PUMP CIRCUITS (ENT. BACK LOG AND BUCTURE)	623	MD	MEB	33	SR	SR	SR	SR	SR	MEC	40							
562	F.P. (IMP. B) - AUX FV PUMP (SR)	617	CM	MEB	33	SR	SR	SR	SR	SR	MEC	50							
563	F.P. (IMP. B) - BACKUP INDICATING PANEL	624	EW	MEB	33	SR	SR	SR	SR	SR	MEC	38							
564	F.P. (IMP. B) - EMERG INC NUB	542	FW	MEB	33	SR	SR	SR	SR	SR	MEC	38							
565	HYDROGEN RELOADING ZERU LAL RUCLES	714	OW	MEB	45	SR	SR	SR	SR	SR	MEC	38							
566	DELETION OF AUTO VOLTAGE ON MAIN UNIT GENERATOR	353	MA	MEB	36	MEB	SR	SR	SR	SR	MEC	38							
567	ALLOW V.C.-141 TO OPERATE WITH V.C. 1A LOG	550	FTF	MEB	44	SR	SR	SR	SR	SR	MEC	38							
570	THIRD RELOADING B/P SMOKEH NUBS	712	CM	MEB	75	SR	SR	SR	SR	SR	MEC	38							
572	PAGE FANTY INCL/ADMIN HUNG	731	SR	MEB	48	MEB	SR	SR	SR	SR	MEC	38							
501	F.P. (IMP. B) - EMERGENCY VENTILATION	625	MA	NA	33						MEC	38							

+ AFFUDC 9,738,650  
12,880,150