

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

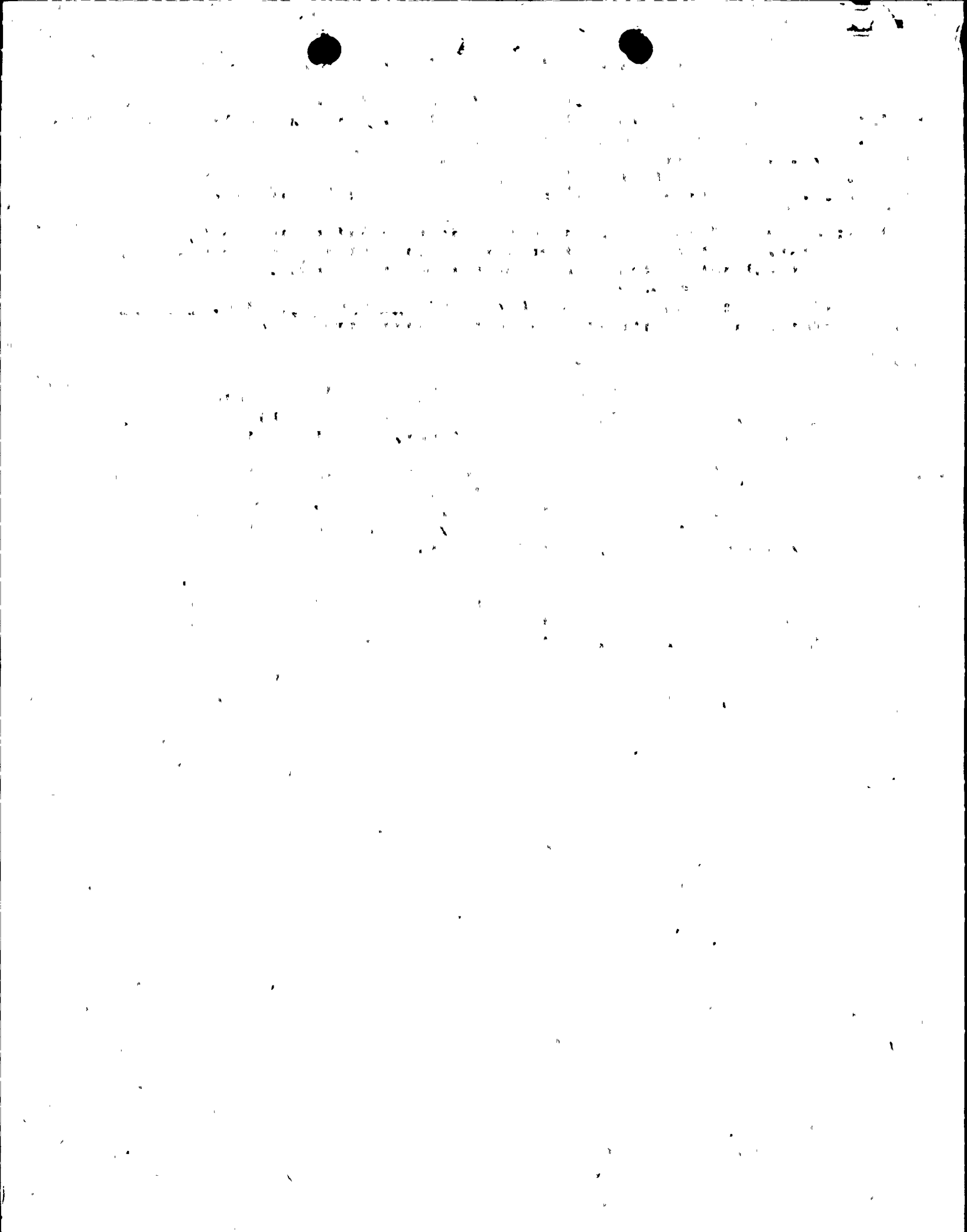
ACCESSION NBR: 8408060192 DOC. DATE: 84/07/27, NOTARIZED: NO DOCKET #
 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400
 AUTH. NAME AUTHOR AFFILIATION
 ZIMMERMAN, S.R. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards "Class IE Equipment Environ. Qualification Master List," containing safety-related equipment in locations w/total integrated dose greater than stated rads.

DISTRIBUTION CODE: A048S ^{see p. 70} COPIES RECEIVED: LTR 1 ENCL 40 ^{ON SW015} SIZE: 17600
 TITLE: OR/Licensing Submittal: Equipment Qualification

NOTES:

	RECIPIENT ID CODE/NAME		COPIES		RECIPIENT ID CODE/NAME		COPIES	
			LTR	ENCL			LTR	ENCL
	NRR LB3 BC	12	1	0	BUCKLEY, B	01	1	1
INTERNAL:	ADM-LFMB		1	0	ELD/HDS1	12	1	1
	GC	13	1	1	IE FILE	09	1	1
	NRR KARSCH, R		1	1	NRR/DE/EQB	07	2	2
	NRR/DL DIR	14	1	1	NRR/DL/ORAB	06	1	1
	NRR/DSI/AEB		1	1	<u>REG FILE</u>	04	1	1
	RGN2		1	1				
EXTERNAL:	ACRS	15	8	8	LPDR	03	1	1
	NRC PDR	02	1	1	NSIC	05	1	1
	NTIS	31	1	1				





Carolina Power & Light Company

SERIAL: NLS-84-348

JUN 27 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NO. 1 - DOCKET NO. 50-400
MASTER LIST OF ELECTRICAL EQUIPMENT
ENVIRONMENTAL QUALIFICATION PROGRAM

Dear Mr. Denton:

Carolina Power & Light Company hereby submits one original and forty copies of the Master List of electrical equipment located in harsh environments. The list contains safety-related equipment in locations where the total integrated dose (TID) is greater than 10^5 rads. We will submit a list of the safety-related equipment in locations where the TID is greater than 10^4 rads in the near future.

A description of our present Environmental Qualification Program is being submitted in a separate letter in the form of a Final Safety Analysis Report amendment (Amendment No. 16).

Should you have any questions with regard to this issue, please contact Mr. Pedro Salas at (919) 836-8015.

Yours very truly,

S. R. Zimmerman
Manager

Nuclear Licensing Section

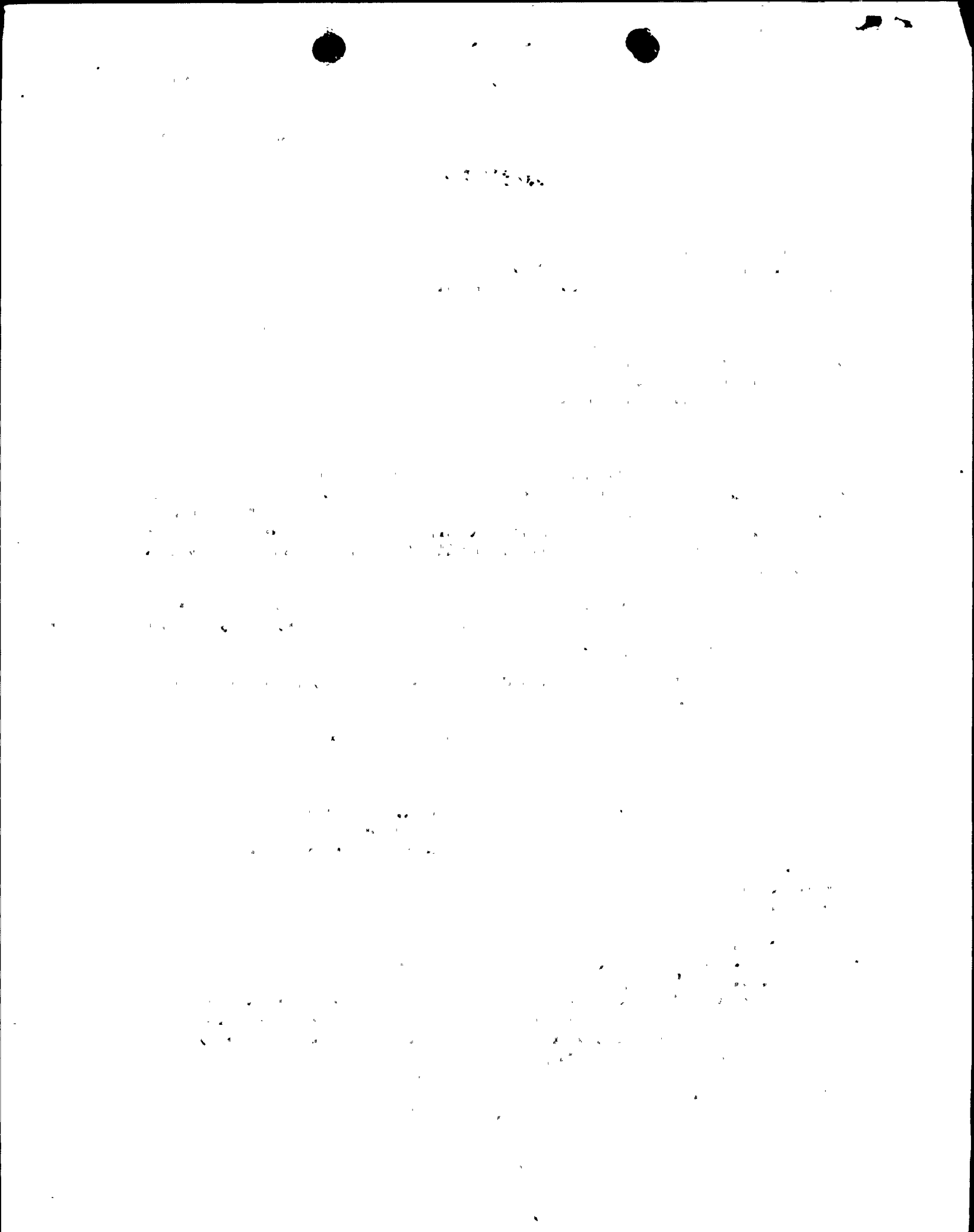
PS/mf (414PSA)
Enclosure

cc: Mr. B. C. Buckley (NRC)
Mr. G. F. Maxwell (NRC-SHNPP)
Mr. J. P. O'Reilly (NRC-RII)
Mr. Travis Payne (KUDZU)
Mr. Daniel F. Read (CHANGE/ELP)
Chapel Hill Public Library
Wake County Public Library

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PDR ADDCK 05000400
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ADD
1/40



SYSTEM # 2 NAME: CS0002-CHEM. & VOLUME CONTROL

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
1CS-V509SB-1	LIMIT SWITCH	W TAG NO 1IA88 RE FAIL CLOSED	WESTINGH'SE	BY FIELD	CB21	1523.0 1730.0 241.0	H	(A)			2770	
1CS-V509SB-1	SOLENOID VALVE	W TAG NO 1IA88 RE FAIL CLOSED	WESTINGH'SE	BY FIELD	CB21	1523.0 1730.0 241.0	H	(A)			2769	
1CS-V510SB-1	LIMIT SWITCH	EXCESS LETDN FROM RCS TO VALVE 1CS-V509	WESTINGH'SE	BY FIELD	CB21	1525.0 1730.0 241.0	H	(A)			2768	
1CS-V510SB-1	SOLENOID VALVE	W TAG NO 1IA88 RE FAIL CLOSED	WESTINGH'SE	BY FIELD	CB21	1525.0 1730.0 241.0	H	(A)			2767	

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SYSTEM # 8 NAME: CS0002-CHEM. 8 VOLUME CONTROL

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION K,Y,Z	ENVIRONN. H/M/CATEG.	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
2CS-L520SA-1	MOTOR OPERATOR	W TAG NO 4GM72 FB	WESTINGH	SEBY FIELD	AB31	1543.0 1596.0 263.0	H	A			2858	
2CS-L520SA-1	LIMIT SWITCH	W TAG NO 4GM72 FB	WESTINGH	SEBY FIELD	AB31	1543.0 1596.0 263.0	H	A			2859	
2CS-L520SA-1	LEVEL CONTR 4	FROM VCT 1X-SM OUTLET TO LCV 2CS-L521SB	WESTINGH	SEBY FIELD	AB31	1543.0 1596.0 263.0	H	A			3616	
2CS-L521SB-1	LEVEL CONTR 4	W TAG NO 4GM72 FB	WESTINGH	SEBY FIELD	AB31	1546.0 1596.0 263.0	H	A			3617	
2CS-L521SB-1	MOTOR OPERATOR	FROM VCT 1X-SM OUTLET TO LCV 2CS-L521SM	WESTINGH	SEBY FIELD	AB31	1546.0 1596.0 263.0	H	A			2860	
2CS-L521SB-1	LIMIT SWITCH	W TAG NO 4GM72 FB	WESTINGH	SEBY FIELD	AB31	1546.0 1596.0 263.0	H	A			2861	



SYSTEM # 8 NAME: C9032-CHEM. 8 VOLUME CONTROL

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION K, Y, Z	ENVIRONN. H/R	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
2CS-V511SA-1	SOLENOID VALVE	W TAG NO 21A78 RG FAIL CLOSED	WESTINGH'S	BY FIELD	CB21	1459.01 1670.01 248.0	H	A			2894	
2CS-V511SA-1	LIMIT SWITCH	W TAG NO 21A78 RG FAIL CLOSED	WESTINGH'S	BY FIELD	CB21	1459.01 1670.01 248.0	H	A			2895	
2CS-V512SA-1	LIMIT SWITCH	W TAG NO 21A78 RG FAIL CLOSED	WESTINGH'S	BY FIELD	CB21	1458.01 1669.01 248.0	H	A			2897	
2CS-V512SA-1	SOLENOID VALVE	ETDN ORIFICE < LINE DOWN STREAM OF VLV	WESTINGH'S	BY FIELD	CB21	1458.01 1669.01 248.0	H	A			2896	
2CS-V513SA-1	SOLENOID VALVE	LETDN ORIFICE LINE DOWN STREAM OF VLV	WESTINGH'S	BY FIELD	CB21	1457.01 1668.01 248.0	H	A			2898	
2CS-V513SA-1	LIMIT SWITCH	W TAG NO 21A78 RG FAIL CLOSED	WESTINGH'S	BY FIELD	CB21	1457.01 1668.01 248.0	H	A			2899	
2CS-V516SA-1	MOTOR OPERATOR	W TAG NO 21M78 FNN END CONN SCH 1	WESTINGH'S	BY FIELD	CB21	1561.01 1690.01 245.0	H	A			2900	
2CS-V516SA-1	LIMIT SWITCH	W TAG NO 21M78 FNN END CONN SCH 1	WESTINGH'S	BY FIELD	CB21	1561.01 1690.01 245.0	H	A			2901	
2CS-V516SA-1	GLOBE ?	SEAL WATER RETURN HDR UPSTREAM TO	WESTINGH'S	BY FIELD	CB21	1561.01 1690.01 245.0	H	A			3391	

SHEARON HARRIS 1 - MASTER LIST

SYSTEM # & NAME: CS0002 Chemical & Volume Control

Tag No.	Component Name	Function & Service	Manufacturer	Model/Ser.	Plant Loc.	Location X,Y,Z	Envirom. Categ M/M	Funct. Categ.	Safety Funct.	Auth. Ref.	CEB #	Rev #
ICS-L500 SN-1	SOLENOID VALVE	LET DOWN LINE ISOL. VLV. SERVING ICS-L500SN-1	ASCO	FT831654	CB 21	X: 1461.0 Y: 1703.0 Z: 241.0	H	A				
ICS-L500 SN-1	LIMIT SWITCH	LET DOWN LINE ISOL. VAL. SERVING ICS-L500SN-1	NAMCO	DZ400X	CB 21	X: 1461.0 Y: 1703.0 Z: 241.0	H	A				
ICS-L501 SN-1	LIMIT SWITCH	LET DOWN LINE ISOL. VLV. SERVING ICS-L501SN-1	NAMCO	DZ400X	CB 21	X: 1459.0 Y: 1701.0 Z: 241.0	H	A				
ICS-501 SN-1	SOLENOID VALVE	LET DOWN LINE ISOL. VLV. SERVING ICS-L500SN-1	ASCO	FT831654	CB 21	X: 1459.0 Y: 1701.0 Z: 241.0	H	A				

SYSTEM # 3 F:CC0014-COMP.COOLING WATER

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
LSE 1CC0670 <i>FOR VALVE 3CC-LISA</i>	SA LEVEL PRIMA RY ELEMENT	GROSS FAILED F UEL DET SOL V A (3CC	AUTOMATIC	FT831654 WS0-220	AB21	1519.0 1619.0 239.0	H	C(A)			0420	
LSE 1CC0676 <i>FOR VALVE 3CC L2 SB-1</i>	SA LEVEL PRIMA RY ELEMENT	GROSS FAILED F UEL DET SOL V A (3CC	AUTOMATIC	FT831654 WS0-220	AB21	1520.0 1620.0 239.0	H	C(A)			0422	

SYSTEM # & NAME: C0014-COMP. COOLING WATER

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
2CC-V184SA-1	GATE 6	UPSTRM TO VALVE 2CC-V183 SN TO RETRN	WESTINGH'S	BY FIELD	CB21	1555.0 1671.0 247.0	H	A			3500	
2CC-V184SA-1	LIMIT SWITCH	W TAG NO 6GM62 FBH	WESTINGH'S	BY FIELD	CB21	1555.0 1671.0 247.0	H	A			2853	
2CC-V184SA-1	MOTOR OPERATOR	W TAG NO 6GM62 FBH	WESTINGH'S	BY FIELD	CB21	1555.0 1671.0 247.0	H	A			2852	
2CC-V191SA-1	GATE 4	RCP 1A-SN DISCH UP STRM TO 2CC-F25M	WESTINGH'S	BY FIELD	CB21	1542.0 1655.0 255.0	H	A			3502	
2CC-V191SA-1	MOTOR OPERATOR	W TAG NO 4GM68 FHH	WESTINGH'S	BY FIELD	CB21	1542.0 1655.0 255.0	H	A			2856	
2CC-V191SA-1	LIMIT SWITCH	W TAG NO 4GM68 FHH	WESTINGH'S	BY FIELD	CB21	1542.0 1655.0 255.0	H	A			2857	

SYSTEM # & NAME: HRO075-CONT. HYDROGEN CONTROL

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIROMM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
EH2RMB 1A SA		ELECTRIC HYDRO GEN RECOMB	WESTINGHOUS E	BY FIELD	CB41	1441.0 1706.0 286.0	H	A	PRRM		2455	
EH2RMB 1B SB		ELECTRIC HYDRO GEN RECOMB.	WESTINGHOUS E	BY FIELD	CB41	1559.0 1706.0 286.0	H	A	PRRM		2456	

SYSTEM B & NAME: CONTAINMENT SPRAY

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M/CATEG.	FUNCT. D	SAFETY FUNCTION	REG 1.97	CES #	REV #
PTICT0951	PRESSURE TRANSMITTER	CONT PRES PR ST II	ITT-BARTON	752	AB32	1471.0 1636.0	H	D			2261	
PTICT0952	PRESSURE TRANSMITTER	CONT PRES PR ST III	ITT-BARTON	752	AB32	1541.0 1643.0 261.0	H	D			2262	
PTICT0953	PRESSURE TRANSMITTER	CONT PRES PR ST IV	ITT-BARTON	752	AB32	1565.0 1668.0 291.0	H	D			2263	
PTICT0950	PRESS. XMTR.	CONT PRES	BARTON	752	A.B.32	261-0	H	D				

SYSTEM # & NAME: FW0009-FEEDWATER

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
LT 1FW 0474 I	LEVEL TRANS MITTER	SG 1A HAR RGE LVL PR ST I	ITT- BARTON	MOD 764 WSO-32	CB21	1454.0 1709.0 236.0	H	A			0083	
LT 1FW 0475 II	LEVEL TRANS MITTER	SG 1A HAR RGE LVL PR ST II	ITT- BARTON	MOD 764 WSO-32	CB21	1456.0 1717.0 236.0	H	A			0088	
LT 1FW 0476 III	LEVEL TRANS MITTER	SG 1A HAR RGE LVL PR ST III	ITT- BARTON	MOD 764 WSO-32	CB21	1460.0 1725.0 236.0	H	A			0092	
LT 1FW 0477 I	LEVEL TRANS MITTER	SG 1A WD RGE LVL PR ST I	ITT- BARTON	MOD 764 WSO-32	CB21	1454.0 1709.0 236.0	H	A			0414	
LT 1FW 0484 I	LEVEL TRANS MITTER	SG 1B HAR RGE LVL PR ST I	ITT- BARTON	MOD 764 WSO-32	CB21	1503.0 1646.0 236.0	H	A			0415	
LT 1FW 0485 II	LEVEL TRANS MITTER	SG 1B HAR RGE LVL PR ST II	ITT- BARTON	MOD 764 WSO-32	CB21	1490.0 1648.0 236.0	H	A			0102	
LT 1FW 0486 III	LEVEL TRANS MITTER	SG 1B HAR RGE LVL PR ST III	ITT- BARTON	MOD 764 WSO-32	CB21	1490.0 1648.0 236.0	H	A			0106	
LT 1FW 0487 II	LEVEL TRANS MITTER	SG 1B WD RGE L EV PR ST II	ITT- BARTON	MOD 764 WSO-32	CB21	1496.0 1646.0 236.0	H	A			0110	
LT 1FW 0494 I	LEVEL TRANS MITTER	SG 1C HAR RGE LEV PR ST I (1LT)	ITT- BARTON	MOD 764 WSO-32	CB21	1531.0 1736.0 236.0	H	A			0416	
LT 1FW 0495 II	LEVEL TRANS MITTER	SG 1C HAR RGE LEV PR ST II	ITT- BARTON	MOD 764 WSO-32	WP21	1336.0 1730.0 236.0	H	A			0117	
LT 1FW 0496 III	LEVEL TRANS MITTER	SG 1C HAR RGE LEV PR ST III	ITT- BARTON	MOD 764 WSO-32	CB21	1544.0 1723.0 236.0	H	A			0120	

TAGS INCLUDED: LT 1FW 0474 I ---PI 1FW 2001A SA
SORT TYPE:SYSDES,TAG GLOBAL REV#- 0 05/01/84



SYSTEM # & NAME 5007R-MAIN STEAM

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
FT IMS 0474	FLOW TRANSMITTER	SG 1A STEAM FL OM PR ST III	ITT-BARTON	MOD 764 WSO-325	CB21	1460.0 1725.0 236.0	H	A				0081
FT IMS 0475	FLOW TRANSMITTER	SG 1A STEAM FL OM PR ST IV	ITT-BARTON	MOD 764 WSO-325	CB31	1468.0 1734.0 263.0	H	A				0086
FT IMS 0484	FLOW TRANSMITTER	SG 1B STEAM FL OM PR ST III	ITT-BARTON	MOD 764 WSO-325	CB21	1490.0 1648.0 236.0	H	A				0098
FT IMS 0485	"	"	"	"	"	236.0	H	A				0112
FT IMS 0494	FLOW TRANSMITTER	SG 1C STEAM FL OM PR ST III	ITT-BARTON	MOD 764 WSO-325	CB21	1544.0 1723.0 236.0	H	A				0112
FT IMS 0495	FLOW TRANSMITTER	SG 1C STEAM FL OM PR ST IV	ITT-BARTON	764 WSO-325	CB21	1544.0 1713.0 236.0	H	A				0115



SYSTEM # 6 MAIN DOOR-MAIN STEAM

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/W/CATEG.	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
2MS-V1SAB-1	SOLENOID VALVE	ISOLATION VAL W TAG NO 30IA6	WESTINGH'S	BY FIELD	AB32	1492.0 1605.0 279.0	H	A		*	2992	
2MS-V1SAB-1	LIMIT SWITCH	ISOLATION VAL W TAG NO 30IA6	WESTINGH'S	BY FIELD	AB32	1492.0 1605.0 279.0	H	A		*	2993	
2MS-V1SAB-1 DELETE	GLOBE 34	FROM PEN M-3 TO ISO VAL 2MS-V1 SAT SPEC PIPE	WESTINGH'S	BY FIELD	AB32	1492.0 1605.0 279.0	H	A			1445	
2MS-V2SAB-1	LIMIT SWITCH	ISOLATION VAL W TAG NO 30IA6	WESTINGH'S	BY FIELD	AB32	1502.0 1605.0 279.0	H	A		*	3001	
2MS-V2SAB-1	SOLENOID VALVE	ISOLATION VAL W TAG NO 30IA6	WESTINGH'S	BY FIELD	AB32	1502.0 1605.0 279.0	H	A		*	3000	
2MS-V2SAB-1	GLOBE 34	FROM PENETRAT- ION M-2 TO ISO VAL 2MS-V2SB-1	WESTINGH'S	BY FIELD	AB32	1502.0 1605.0 279.0	H	A			3701	
2MS-V3SAB-1	GLOBE 34	PEN PEN M-1 TO ISO VAL 2MS- 13SAT SPEC PI-	WESTINGH'S	BY FIELD	AB32	1512.0 1605.0 279.0	H	A			3702	

SYSTEM # & NAME: 000R-RAIN STEAM

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIROMN. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
PMS-V3SAB-1	LIMIT SWITCH	ISOLATION VAL W TAG NO 301A6	WESTINGH'SE	BY FIELD	AB32	1512.0 1605.0 279.0	H	A		*	3003	
PMS-V3SAB-1	SOLENOID VALVE	ISOLATION VAL W TAG NO 301A6	WESTINGH'SE	BY FIELD	AB32	1512.0 1605.0 279.0	H	A		*	3002	

SYSTEM 8 & RC0001-REACTOR

COOLANT

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG. 1.97	CES #	REVI #
FT 1RC 0414 I	FLOW TRANSMITTER	RCS FLOW LOOP 1 PR ST I	ITT-BARTON	MOD 752 WSO-325	CB21	1454.0 1709.0 236.0	H	A			0042	
FT 1RC 0415 II	FLOW TRANSMITTER	RCS FLOW LOOP 1 PR ST II	ITT-BARTON	MOD 752 WSO-325	CB21	1456.0 1717.0 236.0	H	A			0043	
FT 1RC 0416 III	FLOW TRANSMITTER	RCS FLOW LOOP 1 PR ST III	ITT-BARTON	MOD 752 WSO-325	CB21	1460.0 1725.0 236.0	H	A			0044	
FT 1RC 0424 I	FLOW TRANSMITTER	RCS FLOW LOOP 2 PR ST I	ITT-BARTON	MOD 752 WSO-325	CB21	1503.0 1646.0 236.0	H	A			0056	
FT 1RC 0425 II	FLOW TRANSMITTER	RCS FLOW LOOP 2 PR ST II	ITT-BARTON	MOD 752 WSO-325	CB21	1496.0 1646.0 236.0	H	A			0057	
FT 1RC 0426 III	FLOW TRANSMITTER	RCS FLOW LOOP 2 PR ST III	ITT-BARTON	MOD 752 WSO-325	CB21	1490.0 1648.0 236.0	H	A			0058	
FT 1RC U434 I	FLOW TRANSMITTER	RCS FLOW LOOP 3 PR ST I	ITT-BARTON	MOD 752 WSO-325	CB21	1531.0 1736.0 236.0	H	A			0069	
FT 1RC 0435 II	FLOW TRANSMITTER	RCS FLOW LOOP 3 PR ST II	ITT-BARTON	MOD 752 WSO-325	CB21	1536.0 1730.0 236.0	H	A			0070	
FT 1RC U436 III	FLOW TRANSMITTER	RCS FLOW LOOP 3 PR ST III	ITT-BARTON	MOD 752 WSO-325	CB21	1544.0 1723.0 236.0	H	A			0071	

SYSTEM # & NAME: 0001-REACTOR COOLANT

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REVI #
LT 1RC 0459 I	LEVEL TRANS MITTER	PRZR LEVEL PR ST I	ITT- BARTON	764 WSO-32				H	A			0493
LT 1RC 0460 II	LEVEL TRANS MITTER	PRZR LEVEL PR ST II	ITT- BARTON	MOD 764 WSO-32	CB21	1496.0 1646.0 236.0		H	A			0077
LT 1RC 0461 III	LEVEL TRANS MITTER	PRZR LEVEL PR ST III	ITT- BARTON	MOD 764 WSL-32	CB21	1490.0 1649.0 236.0		H	A			0080

SYSTEM # & NAME: RC0001-REACTOR COOLANT

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/W	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
TE 1RC 0410 II	TEMPERATURE PRIMARY EL	LOOP 1 COLD LEG (RTD) PR ST II	WESTINGHOUSE	BY FIELD WSO-32	CB21	1470.0 1703.0 257.0	H	A			0030	
TE 1RC 0412AI	TEMPERATURE PRIMARY EL	DT-TAVG PROTECT (RTD) PR ST I	RDF	BY FIELD WSO-32	CB21	1477.0 1708.0 236.0	H	A			0034	
TE 1RC 0412BI	TEMPERATURE PRIMARY EL	DT-TAVG PROTECT (RTD) PR ST I	RDF	BY FIELD WSO-32	CB21	1476.0 1708.0 236.0	H	A			0037	
TE 1RC 0412CI	TEMPERATURE PRIMARY EL	DT-TAVG PROTECT (RTD) PR ST I	RDF	BY FIELD WSO-32	CB21	1470.0 1704.0 257.0	H	A			0036	
TE 1RC 0412DI	TEMPERATURE PRIMARY EL	DT-TAVG PROTECT (RTD) PR ST I	RDF	BY FIELD WSO-32	CB21	1469.0 1704.0 257.0	H	A			0035	
TE 1RC 0413 I	TEMPERATURE PRIMARY EL	LOOP 1 HOT LEG (RTD) PR ST I	RDF	BY FIELD WSO-32	CB21	1475.0 1709.0 257.0	H	A			0038	
TE 1RC 0420 II	TEMPERATURE PRIMARY EL	LOOP 2 COLD LEG (RTD) PR ST II	RDF	1TE 420 WSO-32	CB21	1511.0 1678.0 257.0	H	A			0045	
TE 1RC 0422AI	TEMPERATURE PRIMARY EL	DT-TAVG PROTECT (RTD) PR ST II	RDF	BY FIELD WSO-32	CB21	1512.0 1671.0 257.0	H	A			0049	
TE 1RC 0422BI	TEMPERATURE PRIMARY EL	DT-TAVG PROTECT (RTD) PR ST II	RDF	BY FIELD WSO-32	CB21	1512.0 1672.0 257.0	H	A			0050	

TAGS INCLUDED: PI 1RC 0404 S ----TE 1RC 0422BII
 SORT TYPE: SYSDES, TAG GLORAL REV#- 0 05/01/84

SYSTEM # & NAME 0001-REACTOR COOLANT

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONN. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	ICES #	REV #
TE 1RC 0422CII	TEMPERATURE PRIMARY EL T	DT-TAVG PROTEC (RTD) PR ST II	RDF	BY FIELD WSO-32	CB21	1511.0 1679.0 257.0	H	A			0059	
TE 1RC 0422DII	TEMPERATURE PRIMARY EL T	DT-TAVG PROTEC (RTD) PR S T II	RDF	BY FIELD WSO-32	CB21	1510.0 1680.0 257.0	H	A			0052	
TE 1RC 0423 I	TEMPERATURE PRIMARY EL (RTD)	LOOP 2 HOT LEG	RDF	BY FIELD WSO-32	CB21	1513.0 1673.0 257.0	H	A			0053	
TE 1RC 0430 II	TEMPERATURE PRIMARY EL G	LOOP 3 COLD LE (RTD) PR ST II	RDF	BY FIELD WSO325	CB21	1513.0 1724.0 257.0	H	A			0061	
TE 1RC 0432AIII	TEMPERATURE PRIMARY EL T	DT-TAVG PROTEC PR ST III	RDF	BY FIELD WSO-32	CB21	1516.0 1718.0 257.0	H	A			0063	
TE 1RC 0432BIII	TEMPERATURE PRIMARY EL T	DT-TAVG PROTEC PR ST III	RDF	BY FIELD WSO-32	CB21	1517.0 1719.0 257.0	H	A			0064	
TE 1RC 0432CIII	TEMPERATURE PRIMARY EL T	DT-TAVG PROTEC PR ST III	RDF	BY FIELD WSO-32	CB21	1513.0 1725.0 257.0	H	A			0065	
TE 1RC 0432DIII	TEMPERATURE PRIMARY EL T	DT-TAVG PROTEC PR ST III	RDF	BY FIELD WSO-32	CB21	1513.0 1726.0 257.0	H	A			0066	
TE 1RC 0433 I	TEMPERATURE PRIMARY EL (RTD) PR ST I	LOOP 3 HOT LEG	RDF	BY FIELD WSO-32	CB21	1517.0 1719.0 255.0	H	A			0068	

SYSTEM # & NAME: RC0001-REACTOR

COOLANT

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
IES IRC R528	POSITION SW	PRZR. SFTY. RELF. VLV POS SW	CROSBY		CB41	308.0	H	A				
IES IRC R529	SA POSITION SW TTCH	PRZR SFTY RELF VLV POS S 1RC-	CROSBY	BY FIELD EBASCO	CB41	308.0	H	A			1275	

SYSTEM # & NAME: RC0001-REACTOR COOLANT

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONN. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
S 1RC R530 SA	POSITION SWITCH	PRZR SFTY RELF VLV POS S 1RC-		BY FIELD			H	A			1276	
RC-D528SA-1	LIMIT SWITCH	W TAG NO 1DA92 R	WESTINGH'SE	BY FIELD	CB21	1508.0 1639.C 255.0	H	A		*	3017	
RC-D528SA-1	SOLENOID VALVE	PRT CONN LINE FOR SDT&N2 AT C/B PENTR.	WESTINGH'SE	BY FIELD	CB21	1508.0 1639.0 255.0	H	A		*	3016	

SHEARON HARRIS 1 - MASTER LIST

SYSTEM # & NAME: RC001 REACTOR COOLANT

Tag No.	Component Name	Function & Service	Manufacturer	Model/Ser.	Plant Loc.	Location X,Y,Z	Environm. Categ M/M	Funct. Categ.	Safety Funct.	Auth. Ref.	CEB #	Re #
PT- IRC402	PRESSURE TRANSMITTER	REACTOR COOLANT SEE ESE-1 TAB 'D'	BARTON	763/584	CB	X: 1531.0 Y: 1736.0 Z: 236.0	H	A				
PT IRC 455	PRESSURE TRANSMITTER	REACTOR COOLANT SEE ESE-1 TAB 'D'	BARTON	763/581	CB	X: 1456.0 Y: 1653.0 Z: 236.0	H	A				
PT IRC 456	PRESSURE TRANSMITTER	REACTOR COOLANT SEE ESE-1 TAB 'B'	BARTON	763/582	CB	X: 1490.0 Y: 1648.0 Z: 236.0	H	A				
PT- IRC 457	PRESSURE TRANSMITTER	REACTOR COOLANT SEE ESE-1 TAB 'B'	BARTON	763/593	CB	X: 1490.0 Y: 1648.0 Z: 236.0	H	A				
PT IRC 403	PRESSURE TRANSMITTER	REACTOR COOLANT LOOP PRESSURE	VERITRAK	76 PH2 / N1250023	CB	X: Y: Z: 236.0	H	A				
TE- IRC 0411 B	TEMPERATURE ELEMENT	REACTOR COOLANT	RdF	21204	CB	X: 1478.0 Y: 1708.0 Z: 236.0	H	A				
TE- IRC 0411 C	TEMPERATURE ELEMENT	REACTOR COOLANT	RdF	21204	CB	X: 1472.0 Y: 1702.0 Z: 263.0	H	A				
TE- IRC 0421 B	TEMPERATURE ELEMENT	REACTOR COOLANT	RdF	21204	CB	X: 1511.0 Y: 1676.0 Z: 257.0	H	A				
TE- IRC 0421 C	TEMPERATURE ELEMENT	REACTOR COOLANT	RdF	21204	CB	X: 1509.0 Y: 1681.0 Z: 257.0	H	A				
TE- IRC 0431 B	TEMPERATURE ELEMENT	REACTOR COOLANT	RdF	21204	CB	X: 1515.0 Y: 1716.0 Z: 236.0	H	A				
TE- IRC 0431 C	TEMPERATURE ELEMENT	REACTOR COOLANT	RdF	21204	CB	X: 1513.0 Y: 1724.0 Z: 236.0	H	A				

SYSTEM # & NAME: RC 001 REACTOR COOLANT (RVLIS)

Tag No.	Component Name	Function & Service	Manufacturer	Model/ Ser.	Plant Loc.	Location X,Y,Z	Environm. Categ M/M	Funct. Categ.	Safety Funct.	Auth. Ref.	CFR	Rev
TE IRC 1313 SA	TEMPERATURE ELEMENT	RVLIS REACTOR HEAD CAP'RY. INB'RD.TEMP.	MINCO		CB		H					
TE IRC 1314 SA	TEMPERATURE ELEMENT	RVLIS REACTOR HEAD CAP'RY. OUTBOARD TEMPERATURE	MINCO		CB		H					
TE IRC 1315 SA	TEMPERATURE ELEMENT	RVLIS REACTOR HOT LEG CAPILLARY TUB'RD.TEMP.	MINCO		CB		H					
TE IRC 1316 SA	TEMPERATURE ELEMENT	RVLIS REACTOR HOT LEG CAPILLARY OUTB'RD.TEMP.	MINCO		CB		H					
TE IRC 1317 SA	TEMPERATURE ELEMENT	RVLIS CAP'RY. TO SEAL TABLE INB'RD.TEMP.	MINCO		CB		H					
TE IRC 1318 SA	TEMPERATURE ELEMENT	RVLIS CAP'RY. TO SEAL TABLE OUTB'RD.TEMP.	MINCO		CB		H					
TE IRC 1319 SA	TEMPERATURE ELEMENT	RVLIS CAP'RY. FROM SEAL TABLE TEMPERATURE	MINCO		CB		H					
TE IRC 1323 SB	TEMPERATURE ELEMENT	RVLIS REACTOR HEAD CAPILLARY IN B'RD.TEMP.	MINCO		CB		H					
TE IRC 1324 SB	TEMPERATURE ELEMENT	RVLIS REACTOR HEAD CAPILLARY OUTB'RD.TEMP.	MINCO		CB		H					
TE IRC 1325 SB	TEMPERATURE ELEMENT	RVLIS REACTOR HOT LEG CAPILLARY INB'RD.TEMP.	MINCO		CB		H					
TE IRC 1326 SB	TEMPERATURE ELEMENT	RVLIS REACTOR HOT LEG CAPILLARY OUTB'RD.TEMP.	MINCO		CB		H					

SYSTEM # & NAME: RC 001 REACTOR COOLANT (RVLIS)

Tag No.	Component Name	Function & Service	Manufacturer	Model/Ser.	Plant Loc.	Location X,Y,Z	Environment Categ M/M	Function Categ.	Safety Function.	Auth. Ref.	CFR #	Rev #
TE IRC 1327 SB	TEMPERATURE ELEMENT	RVLIS CAP'LRY. TO SEAL TABLE IN'RD. TEMPERATURE	BARTON		CB		H					
TE IRC 1328 SB	TEMPERATURE ELEMENT	RVLIS CAP'LRY. TO SEAL TABLE OUT'RD. TEMPERATURE	BARTON		CB		H					
TE IRC 1329 SB	TEMPERATURE ELEMENT	RVLIS CAP'LRY. FROM SEAL TABLE TEMPERATURE	BARTON		CB		H					
IS IRC 310 SA	DIFFERENTIAL PRESSURE INDICATING SWITCH	RVLIS REACTOR HOT LEG HYDRAULIC ISOLATOR	BARTON	581	CB		H					
IS IRC 311 SA	DIFFERENTIAL PRESSURE INDICATING SWITCH	RVLIS REACTOR HEAD HYDRAULIC ISOLATOR	BARTON	581	CB		H					
IS IRC 312 SA	DIFFERENTIAL PRESSURE INDICATING SWITCH	RVLIS SEAL TABLE HYDRAULIC ISOLATOR	BARTON	581	CB		H					
IS IRC 320 SB	DIFFERENTIAL PRESSURE INDICATING SWITCH	RVLIS REACTOR HOT LEG HYDRAULIC ISOLATOR	BARTON	581	CB		H					
IS IRC 321 SB	DIFFERENTIAL PRESSURE INDICATING SWITCH	RVLIS REACTOR HEAD HYDRAULIC ISOLATOR	BARTON	581	CB		H					
IS IRC 322 SB	DIFFERENTIAL PRESSURE INDICATING SWITCH	RVLIS SEAL TABLE HYDRAULIC ISOLATOR	BARTON	581	CB		H					
T IRC 310 SA	LEVEL TRANSMITTERS	RVLIS REACTOR VESSEL PLENNUM LEVEL	BARTON	752	CB		H					
T IRC 311 SA	LEVEL TRANSMITTERS	RVLIS REACTOR VESSEL NARROW RANGE LEVEL	BARTON	752	CB		H					

SYSTEM # & NAME: REACTOR PROTECTION SYSTEM

Tag No.	Component Name	Function & Service	Manufacturer	Model/ Ser.	Plant Loc.	Location X,Y,Z	Environmental Categ M/H	Funct. Categ.	Safety Funct.	Auth. Ref.	CFR	Re
NE 41	NEUTRON DETECTOR	POWER RANGE EXCORE NUCLR INSTRUMENTATION	WESTINGHOUSE	WL23686	CB		H	A				
NE 42	NEUTRON DETECTOR	POWER RANGE EXCORE NUCLR INSTRUMENTATION	WESTINGHOUSE	WL23686	CB		H	A				
NE 43	NEUTRON DETECTOR	POWER RANGE EXCORE NUCLR INSTRUMENTATION	WESTINGHOUSE	WL23686	CB		H	A				
NE 44	NEUTRON DETECTOR	POWER RANGE EXCORE NUCLR INSTRUMENTATION	WESTINGHOUSE	WL23686	CB		H	A				

SYSTEM # & NAME: HOOD-RESIDUAL HEAT REMOVAL

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONN. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV
1RH-V500SB-1	LIMIT SWITCH	W TAG NO 12GMB BSEH	WESTINGH'S	BY FIELD	CB21	1520.0 1702.0 251.0	N	A			2772	0



SYSTEM # & NAME: RH003-RESIDUAL HEAT REMOVAL

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
1RH-V500SB-1	MOTOR OPERATOR	W TAG NO 12GM8 8SEH	WESTINGH'SE	BY FIELD	CB21	1520.0 1702.0 251.0	H	A			2771	
1RH-V500SB-1	GATE 12	RCS LOOP 3 HL TO RHR PUMP SUCTION	WESTINGH'SE	BY FIELD	CB21	1520.0 1702.0 251.0	H	A			3719	
1RH-V501SA-1	GATE 12	W TAG NO 12GM8 8SEH W/LS	WESTINGH'SE	BY FIELD	CB11	1548.0 1682.0 230.0	H	A			3720	
1RH-V501SA-1	LIMIT SWITCH	RCS LOOP 3 HL TO RHR PUMP SUCTION	WESTINGH'SE	BY FIELD	CB11	1548.0 1682.0 230.0	H	A			2773	
1RH-V501SA-1	MOTOR OPERATOR	W TAG NO 12GM8 8SEH W/LS	WESTINGH'SE	BY FIELD	CB11	1548.0 1682.0 230.0	H	A			2774	
1RH-V502SB-1	LIMIT SWITCH	W TAG NO 12GM8 8SEH W/LS PER CQL-3146 P	WESTINGH'SE	BY FIELD	CB21	1480.0 1702.0 251.0	H	A			2776	
1RH-V502SB-1	MOTOR OPERATOR	W TAG NO 12GM8 8SEH W/LS PER CQL-3146 P	WESTINGH'SE	BY FIELD	CB21	1480.0 1702.0 251.0	H	A			2775	
1RH-V502SB-1	GATE 12	RCS LOOP 1 HL TO RHR PUMP SUCTION	WESTINGH'SE	BY FIELD	CB21	1480.0 1702.0 251.0	H	A			3717	
1RH-V503SA-1	GATE 12	RCS LOOP 1 HL TO RHR PUMP SUCTION	WESTINGH'SE	BY FIELD	CB11	1457.0 1676.0 230.0	H	A			3718	
1RH-V503SA-1	MOTOR OPERATOR	W TAG NO 12GM8 8SEH	WESTINGH'SE	BY FIELD	CB11	1457.0 1676.0 230.0	H	A			2777	
1RH-V503SA-1	LIMIT SWITCH	W TAG NO 12GM8 8SEH	WESTINGH'SE	BY FIELD	CB11	1457.0 1676.0 230.0	H	A			2778	

TAGS INCLUDED: 1RH-V500SB-1 ---2RH-F512SB-1
 SORT TYPE:SYSDS,TAG GLOBAL REV#- 0 05/01/84

SYSTEM # & NAME: RHM073-RESIDUAL HEAT REMOVAL

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIROMM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
2RH-V506SB-1	GATE 8	RHR HT ECX 1B-SB DISCHARGE TO CVCS CHG	WESTINGH'SE	BY FIELD	AB21	1567.0 1579.0 236.0	H	A			3716	
2RH-V506SB-1	MOTOR OPERATOR	W TAG NO 8GM74 FE	WESTINGH'SE	BY FIELD	AB21	1567.0 1579.0 236.0	H	A			3024	
2RH-V506SB-1	LIMIT SWITCH	W TAG NO 8GM74 FE	WESTINGH'SE	BY FIELD	AB21	1567.0 1579.0 236.0	H	A			3025	
2RH-V507SA-1	LIMIT SWITCH	W TAG NO 8GM74 FE	WESTINGH'SE	BY FIELD	AB21	1434.0 1579.0 236.0	H	A			3027	
2RH-V507SA-1	MOTOR OPERATOR	RHR HT EXC~ 1A-SA DISCH TO CVCS CHG PMP	WESTINGH'SE	BY FIELD	AB21	1434.0 1579.0 236.0	H	A			3026	

SYSTEM # & NAME: RH0003-RESIDUAL HEAT REMOVAL

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
2RH-V507SA-1	GATE R	M TAG NO 8GM74 FE	WESTINGH' SE	BY FIELD	AB21	1434.0 1579.0 236.0	H	A			3714	

SYSTEM # 8 NAME: S1003A-SAFETY INJ.

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONN. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
TE 1SI 0910A1 S A	TEMPERATURE PRIMARY EL	CHRG SI PMP 1A -SI MTR WINDI NG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1485.0 1593.0 236.0	H	A			1341	
TE 1SI 0910A2 S W	TEMPERATURE PRIMARY EL	CHRG SI PMP 1A -SA MTR WINDI NG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1485.0 1593.0 236.0	H	A			1342	
TE 1SI 0910A3 S A	TEMPERATURE PRIMARY EL	CHRG SI PMP 1A -SA MTR WINDI NG TEMP (TC)	WESTINGH'SE	WSO-20505	AB21	1485.0 1593.0 236.0	H	A			1343	
TE 1SI 0910A4 S A	TEMPERATURE PRIMARY EL	CHRG SI PMP 1A -SA MTR WINDI NG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1485.0 1593.0 236.0	H	A			1344	
TE 1SI 0910B1 S B	TEMPERATURE PRIMARY EL	CHRG SI PMP 1B -SB MTR WINDI NG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1532.0 1593.0 236.0	H	A			1351	
TE 1SI 0910B2 S B	TEMPERATURE PRIMARY EL	CHRG SI PMP 1B -SB MTR WINDI NG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1532.0 1593.0 236.0	H	A			1350	
TE 1SI 0910B3 S B	TEMPERATURE PRIMARY EL	CHRG SI PMP 1B -SB MTR WINDI NG TEMP	WESTINGH'SE	BY FIELD WSO-205	AB21	1532.0 1593.0 236.0	H	A			1349	
TE 1SI 0910B4 S B	TEMPERATURE PRIMARY EL	CHRG SI PMP 1B -SB MTR WINDI NG TEMP	WESTINGH'SE	BY FIELD WSO-205	AB21	1532.0 1593.0 236.0	H	A			1352	
TE 1SI 0910B5 S B	TEMPERATURE PRIMARY EL	CHRG SI PMP 1B -SB MTR WINDI NG TEMP	WESTINGH'SE	BY FIELD WSO-205	AB21	1532.0 1593.0 236.0	H	A			1353	
TE 1SI 0910B6 S B	TEMPERATURE PRIMARY EL	CHRG SI PMP 1B -2B MTR WINDI NG TEMP	WESTINGH'SE	BY FIELD WSO-205	AB21	1532.0 1593.0 236.0	H	A			1354	
TE 1SI 0911A SA	TEMPERATURE PRIMARY EL	CHRG SI PMP 1A -SA UPPER BRG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1485.0 1593.0 236.0	H	A			1347	
TE 1SI 0911B SB	TEMPERATURE PRIMARY EL	CHRG SI PMP 1B -SB UPPER BRG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1532.0 1593.0 236.0	H	A			1355	

TAGS INCLUDED: TE 1SI 0910A1 S----TE 1SI 0911B SB
SORT TYPE:SYSDS,TAG GLOBAL REV#- 0 05/01/84

SYSTEM # 6 N SI0034-SAFETY INJ.

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
TE 1SI 0912A SA	TEMPERATURE PRIMARY EL	CHRG SI PMP 1A -SA LOWER BRG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1485.0 1593.0 236.0	H	A			1348	
TE 1SI 09129 SR	TEMPERATURE PRIMARY EL	CHRG SI PMP 1B -SB LOWER BRG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1532.0 1593.0 236.0	H	A			1356	
TE 1SI 0914-1 S	TEMPERATURE PRIMARY EL	CHRG SI PMP 1C -SAB MTR WINDI NG TEMP (TC)	WESTINGH'SE	WSO20505	AB21	1508.0 1593.0 236.0	H	A			1357	
TE 1SI 0914-2 S	TEMPERATURE PRIMARY EL	CHRG SI PMP 1C -SAB MTR WINDI NG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1508.0 1593.0 236.0	H	A			1358	
TE 1SI 0914-3 S	TEMPERATURE PRIMARY EL	CHRG SI PMP 1C -SAB MTR WINDI NG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1508.0 1593.0 236.0	H	A			1359	
TE 1SI 0914-4 S	TEMPERATURE PRIMARY EL	CHRG SI PMP 1C -SAB MTR WINDI NG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1508.0 1593.0 236.0	H	A			1360	
TE 1SI 0914-5 S	TEMPERATURE PRIMARY EL	CHRG SI PMP 1C -SAB MTR WINDI NG TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1508.0 1593.0 236.0	H	A			1361	
TE 1SI 0914-6 S	TEMPERATURE PRIMARY EL	CHRG SI PMP 1C -SAB MTR WINDI W TEMP (TC)	WESTINGH'SE	BY FIELD WSO-205	AB21	1508.0 1593.0 236.0	H	A			1362	

SYSTEM 0 & NAME 003A-SAFETY INJ.

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
2SI-V535SA-1	MOTOR OPERATOR	W TAG NO 12GMB BFNH	WESTINGH	SE BY FIELD	CB21	1537.0 1736.0 254.0	H	A			3050	
2SI-V535SA-1	LIMIT SWITCH	W TAG NO 12GMB BFNH	WESTINGH	SE BY FIELD	CB21	1537.0 1736.0 254.0	H	A			3051	
2SI-V535SA-1	GATE 12	ACCUM TK 1C-SA INJ LINE TO RCS CL LOOP 3	WESTINGH	SE BY FIELD	CB21	1537.0 1736.0 254.0	H	A			3734	
2SI-V536SB-1	GATE 12	W TAG NO 12GMB BFNH	WESTINGH	SE BY FIELD	CB21	1518.0 1652.0 249.0	H	A			3733	
2SI-V536SB-1	LIMIT SWITCH	ACCUM 1B-SB INJ LINE TO RCS CL LOOP 2	WESTINGH	SE BY FIELD	CB21	1518.0 1652.0 249.0	H	A			3053	
2SI-V536SB-1	MOTOR OPERATOR	W TAG NO 12GMB BFNH	WESTINGH	SE BY FIELD	CB21	1518.0 1652.0 249.0	H	A			3052	
2SI-V537SA-1	LIMIT SWITCH	W TAG NO 12GMB BFNH	WESTINGH	SE BY FIELD	CB21	1448.0 1716.0 250.0	H	A			3055	
2SI-V537SA-1	MOTOR OPERATOR	W TAG NO 12GMB BFNH	WESTINGH	SE BY FIELD	CB21	1448.0 1716.0 250.0	H	A			3054	
2SI-V537SA-1	GATE 12	ACCUM 1A-SA INJ LINE TO RCS CL LOOP 1	WESTINGH	SE BY FIELD	CB21	1448.0 1716.0 250.0	H	A			3732	

TAGS INCLUDED: 2SI-V535SA-1 ----2SI-V554SB-1
SORT TYPE: SYSDES, TAG GLOBAL REVR- 0 05/01/84

SYSTEM # & NAME 1003A-SAFETY INJ.

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
2SI-V555SA-1	SOLENOID VALVE	ACCUM TEST LINE AT PENETRATION	WESTINGH ^{SE}	BY FIELD	CB21	1540.0 1651.0 255.0	H	A		*	3060	
2SI-V555SA-1	LIMIT SWITCH	W TAG NO 3/4IA 78RE	WESTINGH ^{SE}	BY FIELD	CB21	1540.0 1651.0 255.0	H	A		*	3061	

SYSTEM # 5 NAME 073A-SAFETY INJ.

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	REV B
TE 1SM 091045	S TEMPERATURE PRIMARY EL	CHRG SI PMP 1A -SA MTR WINDI NG TEMP (TC)	WESTINGH'S	BY FIELD WSO-205	AB21	1485.0 1593.0 236.0	H	A			1345
TE 1SM 091046	S TEMPERATURE PRIMARY EL	CHRG SI PMP 1A -SA MTR WINDI NG TEMP (TC)	WESTINGH'S	BY FIELD WSO-205	AB21	1485.0 1593.0 236.0	H	A			1346

SYSTEM # 6 W0042-WASTE PROC. (GAS)

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIRONM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG. 1.97	CES #	REV #
ZWG-D590SA-1	LIMIT SWITCH	M TAG NO 314 D A62R	WESTINGH [®]	SEBY FIELD	CB21	1507.0 1638.0 242.0	H	A		*	3197	
ZWG-D590SA-1	SOLENOID VALVE	M TAG NO 314 D A62R	WESTINGH [®]	SEBY FIELD	CB21	1507.0 1638.0 242.0	H	A		*	3196	

SYSTEM # 3 WLO043-WASTE PROC. (LIQUID)

TAG NO	COMPONENT NAME	FUNCTION & SERVICE	MANUFACTUR.	MODEL/SER	PLANT LOCATION	LOCATION X,Y,Z	ENVIROM. H/M	FUNCT. CATEG.	SAFETY FUNCTION	REG 1.97	CES #	REV #
2WL-L600SA-1	LIMIT SWITCH	W TAG LCV-1003	WESTINGH [®] SE	BY FIELD	CB11	1497.0 1638.0 230.0	H	A		*	3201	
2WL-L600SA-1	SOLENOID VALVE	W TAG LCV-1003	WESTINGH [®] SE	BY FIELD	CB11	1497.0 1638.0 230.0	H	A		*	3200	

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL	DEH. QUALIF.			
TAG NO: ICS-L500SN-1	OPERABILITY	40 YEARS NORMAL	2	OPERABILITY REVIEW	4	5	6	
EQUIPMENT: VALVE TYPE	NORM/TEST DBA	1 YEAR POST DBA					7	
COMPONENT: SOLENOID	TEMPERATURE	120° F NORM FSAR FIG. 3.11.4-1 FOR DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1				
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA		FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)				
MAJOR SUPPLIER: COPES VULCAN	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)				
MODEL AND SERIAL #: FT 831654	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1				
FUNCTIONS: LET DOWN LINE & SERVICE ISO. VALVE - SERVING VALVE ICS-L500SN-1	R GAMMA A BETA D SHIELD T.I.D.	4.7 E6 3.4 E7		FSAR APP. 3.11.8-19 CONT. RAD. ZONE C5				
ACCUR. SPEC: N/A	AGE - INST LIFE	40 YEARS (PER 323-1974 DEF.)		10 CFR 50 PARAGRAPH 50.51				
ACCUR. DEH.: N/A	SUBMERGED	228.3 YES	N/A	FSAR SECTION	N/A	/	NONE	
SPECIFICATIONS: W. PROJ. SPEC. 678959 02 W. E. SPEC. 678844 02	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
P.O. #: 183622 CHD # 154. #0251	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165G-803					
PLANT LOC.: C.B. 21	TEMPERATURE	T						
COORDINATES X= 1461.0 Y= 1703.0 Z= 241.0	PRESSURE	P						
INSTALLED (Y/N):	REL. HUMIDTY	H						
INSTAL. REF: BY FLD.	CHEM. SPRAY	C						
QUALIF EXEMPTN: N/A	RADIATION	R					REVISION #:	
QUALIF STATUS:	AGING	A					DATE:	
PHYS DWG REF: CAR-2165G-138	SUBMERGENCE	S					SYSTEM: CHEM. / VOLU. CONT. SYS.	
PHYS DWG LOC: TOTAL EQUIP LIST	FSAR ENV CAT:	A					TAG: ICS-L500SN-1	
MOUNTING: N/A	1958 CATEG.:							
EDUC. LOC: 3.2	APPENDIX E							

EQUIP. DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS	
	PARAMETER	ACTUAL	DEH.	QUALIF.				ACTUAL
TAG NO: ICS-L500SN-1	OPERABILITY	40 YEARS NORMAL			OPERABILITY REVIEW			ACCEL TIME:
EQUIPMENT: VALVE TYPE	NORM/TEST	1 YEAR						ACCEL TEMP:
COMPONENT: LIMIT SW.	DBA	POST DBA						REPLACEMENT:
MANUFACTURER: NAMCO	TEMPERATURE	120° F NORM			FSAR TABLE 9.4.0-1			MAINTAIN.:
MAJOR SUPPLIER: COPES VULCAN	FSAR FIG.	3.11.4-1			FSAR FIG. 3.11.4-1			SUBCOMPONENTS:
MODEL AND SERIAL #: D2400X	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1			FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1 (DBA)			
FUNCTIONS: LET DOWN LINE & SERVICE	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 9.4.0-1 NORM			
ACCUR. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PH 8.5-11.0			FSAR SECT. 3.11.5.1			
ACCUR. DEH.: N/A	R GAMMA	4.7 E6			FSAR APP. 3.11.8-19			
SPECIFICATIONS: N/A	A BETA	3.4 E7			CONT. RAD. ZONE C5			
P.O. #: 183622	AGE - INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION:
PLANT LOC.: C.B. 21	(PER 323-1974 DEF.)							
COORDINATES X-1461.0	SUBMERGED	228.3			FSAR SECTION			AUTH. REFERENCE:
Y-1703.0		YES		N/A		N/A	NONE	
Z-241.0								
INSTALLED (Y/N):	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTALL. REF: BY FLD.	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G-803				REVISION #: DATE: SYSTEM: CHEM. & VOLU. CONT. SYS. TAG: ICS-L500SN-1	
QUALIF EXEMPT: N/A	TEMPERATURE	T						
QUALIF STATUS	PRESSURE	P						
	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
PHYS DNG REF: CAR-2165 G-138	AGING	A						
PHYS DNG LOC: TOTAL EQUIP. LIST	SUBMERGENCE	S						
MOUNTING: N/A	FSAR ENV CAT:	A						
EDUC. LOC: 9.2	1958 CATEG.:							
	APPENDIX E							

EQUIP. DESCRIPTION	ENVIRONMENT		DEH. QUALIF.	DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL		ACTUAL	DEH. QUALIF.			
TAG NO: ICS-L501SN-1	OPERABILITY	40 YEARS	2	OPERABILITY REVIEW	3	5	6	7
EQUIPMENT: VALVE	NORM/TEST	1 YEAR						
TYPE	DBA	POST DBA						ACCEL TIME:
COMPONENT: SOLENOID	TEMPERATURE	120°F NORM		FSAR TABLE 9.4.0-1			/	ACCEL TEMP:
MANUFACTURER: ASCO		FSAR FIG. 3.11.4-1		FSAR FIG. 3.11.4-1			H	REPLACEMENT:
		FOR DBA						MAINTAIN.:
MAJOR SUPPLIER: COPEL VULCAN	PRESSURE	ATMOS. NORM.		FSAR SECT. 3.11.6 NORM.			/	SUBCOMPONENTS:
		SEE FSAR FIG. 3.11.6-1		{ FIG. 3.11.6-1(DBA)			H	
		FOR DBA						
MODEL AND SERIAL #	RELATIVE HUMIDITY	40% NORM		FSAR TABLE 9.4.0-1 NORM			/	
		100% DBA		FSAR SECT. 3.11.4.3(DBA)			H	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	2000-2100 PRM BORON		FSAR SECT. 3.11.5.1			/	
		PH 8.5-11.0					H	
ACCUR. SPEC: N/A	R GAMMA	4.7 EQ		FSAR APP. 3.11.B-19			/	
ACCUR. DEH.: N/A	A BETA	3.4 E7		CONT. RAD. ZONE C5			H	
SPECIFICATIONS	D SHIELD	T.I.D.						
P.O. #	AGE-INST LIFE	40 YEARS		10 CFR 50 PARAGRAPH 50.51			/	SAFETY FUNCTION:
PLANT LOC.	(PER 323-1974 DEF.)							
COORDINATES	SUBMERGED	228.3		FSAR SECTION			/	
		YES	N/A			N/A		AUTH. REFERENCE:
INSTALLED (Y/M):	PARA-METER	SUPPL. REVIEW		OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
INSTALL. REF: BY FLD.	OPERABILITY	O						
QUALIF EXEMPT: N/A	TEMPERATURE	T						
QUALIF:	PRESSURE	P						
STATUS:	REL. HUMIDTY	H						
	CHEM. SPRAY	C		REFERENCES: FLOW DIAG. CAR-2165 G-803				
	RADIATION	R						
PHYS DMG REF: CAR-2165 G-138	AGING	A						REVISION #:
PHYS DMG LOC: TOTAL EQNP. LIST	SUBMERGENCE	S						DATE:
MOUNTING: N/A	FSAR ENV CAT:	A						SYSTEM: CHEM. & VOLU. CONT. SYS.
EQ. DUC. LUC: 3.2	1988 CATEG.:							TAG: ICS-L501SN-1
	APPENDIX E							

EQUIP. DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/H	OUTS. ITEMS
	PARAMETER	ACTUAL	DEH.	QUALIF.	ACTUAL	DEH.	QUALIF.
TAG NO: ICS-L501SN-1	OPERABILITY	40 YEARS NORMAL			OPERABILITY REVIEW		
EQUIPMENT TYPE: VALVE	NORM/TEST DBA	1 YEAR POST DBA					
COMPONENT: LIMIT SW.	TEMPERATURE	120°F NORM			FSAR TABLE 19.4.0-1		
MANUFACTURER: NAMCO		FSAR FIG. 3.11.4-1			FOR DBA		
MAJOR SUPPLIER: COPEL VULCAN	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1			FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1		
MODEL AND SERIAL #: D2400X	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 19.4.0-1 NORM		
FUNCTIONS & SERVICE: LET DOWN LINE ISO. VALVE - SERVING VALVE ICS-L501SN-1	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0			FSAR SECT. 3.11.4.3 (DBA)		
ACCUR. SPEC: N/A					FSAR SECT. 3.11.5.1		
ACCUR. DEH.: N/A	R GAMMA A BETA D SHIELD	4.7 E6 3.4 E7			FSAR APP. 3.11.8-19		
SPECIFICATIONS: W. PROJ. SPEC. 678959 02 W.E. SPEC. 678844 02	AGE - INST LIFE	40 YEARS			CONT. RAD. ZONE C5		
P.O. #: 183622 CHD # 15H#0250		(PER 323-1974 DEF.)			10 CFR 50 PARAGRAPH 50.51		
PLANT LOC.: C.B. 21	SUBMERGED	228.3			FSAR SECTION		
COORDINATES X= 1459.0 Y= 1701.0 Z= 241.0		YES		N/A		N/A	NONE

INSTALLED (Y/N):
 INSTAL. REF: BY FLD.
 QUALIF EXEMPTN: N/A

 QUALIF:
 STATUS

 PHYS DNG REF: CAR 2165 G-138
 PHYS DNG LUC: TOTAL EQUIP. LIST
 MOUNTING: N/A
 ED. DUC. LUC: 9.2

PARAMETER	SUPPL. REVIEW
OPERABILITY	O
TEMPERATURE	T
PRESSURE	P
REL. HUMIDTY	H
CHEM. SPRAY	C
RADIATION	R
AGING	A
SUBMERGENCE	S
FSAR ENV CAT:	A
1958 CATEG.:	
APPENDIX E	

OTHER EQUIPMENT THIS CES APPLIES TO:
 REFERENCES: FLOW DIAG. CAR-2165 G-803

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
 REVISION #:
 DATE:
 SYSTEM: CHEM. VOLU. CONT. SYS.
 TAG: ICS-L501SN-1

A/E: EBA
 UTILITY: PUMPER & LIGHT

FACILITY: SHEARON HARR
 COMPONENT EVALUATION

ISSUE: WESTINGHOUSE - PWR
 CAPACITY: 900 MW(E)

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/H	OUTS ITEMS
	PARAMETER	ACTUAL	DEH.	QUALIF.			
TAG NO: ICS V509 SB-1	OPERABILITY	40 YEARS			OPERABILITY REVIEW		ACCEL TIME
EQUIPMENT: VALVE TYPE: AIR OPERATED	NORM/TEST DBA	1 YEAR POST DBA					ACCEL TEMP
COMPONENT: SOL. VALVE	TEMPERATURE	120° F NORM FSAR FIG. 3.11.4-1 FOR DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1	H	REPLACEMENT
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA			FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)	H	MAINTAIN.
MAJOR SUPPLIER: COPES VULCAN	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	H	SUBCOMPONENTS
MODEL AND SERIAL # FT 831654	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1		
FUNCTIONS & SERVICE	R GAMMA A BETA D SHIELD T.I.D.	1.15 EG 1.7 E7 100% BETA 1.1 EG			FSAR SECT 3.11.B-13 CONT. RAD. ZONE C1	H	
ACCUR. SPEC: N/A	AGE- INST LIFE (PER 323-1974 DEF.)	40 YEARS			10 CFR 50 PARAGRAPH 50.51		SAFETY FUNCTION: RCS EXCESS LETDOWN
ACCUR. DEM.: N/A	SURMERGED	228.3 YES			FSAR SECTION 3-6		AUTH. REFERENCE
SPECIFICATIONS:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
P.O. #: CND # : SH. 289	OPERABILITY	O	REFERENCES: FLOW DIAG. 2165 G803 VENDOR DWG. 1364-2936				
PLANT LOC.: C.B.	TEMPERATURE	T					
COORDINATES X=1523.0 Y=1730.0 Z=241.0	PRESSURE	P					
INSTALLED (Y/H):	REL. HUMIDTY	H					
INSTAL. NEF:	CHEM. SPRAY	C					
QUALIF EXEMPT:	RADIATION	R					
QUALIF:	AGING	A					REVISION #
STATUS:	SURMERGENCE	S					DATE
PHYS DMG NEF: CAR-2165 G138 (F-17)	FSAR ENV CAT:						SYSTEM CONTROL
PHYS DMG LUC:	19588 CATEG.:	C					VOLUME
MOUNTING:	APPENDIX E						TAG: ICS V509 SB-1
EQ. DUC. LUC:							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	H/M UITS	ITEMS
	PARAMETER	ACTUAL				
TAG NO: ICS V509 SB-1	OPERABILITY	40 YEARS	OPERABILITY REVIEW		/	ACCEL TIME:
EQUIPMENT TYPE: VALVE AIR OPERATED	NORM/TEST DBA	1 YEAR POST DBA				ACCEL TEMP:
COMPONENT: LIMIT SW.	TEMPERATURE	120 F NORM FSAR FIG. 3.11.4-1 FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		H	REPLACEMENT:
MANUFACTURER: NAMCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)		H	SUBCOMPONENTS:
MAJOR SUPPLIER: COPEL VULCAN	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		H	
MODEL AND SERIAL #: EA170 11302	CHEMICAL SPRAY	2000-2100 PPM BORDON PH 8.5-11.0	FSAR SECT. 3.11.5.1		/	
FUNCTIONS & SERVICE	R GAMMA A BETA D SHIELD	1.15 EG 1.7 E7 100% BETA T.I.D. 1.1 EG	FSAR SECT 3.11.B-18 CONT. RAD. ZONE C1		H	
ACCUM. SPEC: N/A	AGE- INST LIFE (PER 323-1974 DEF.)	40 YEARS	10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTIONS: RCS EXCESS LETDOWN
ACCUM. DEH.: N/A	SUBMERGED	228.3 YES	FSAR SECT. 3.6		/	AUTH. REFERENCE:

INSTALLATION INFO	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
INSTALLED (Y/N):	OPERABILITY	O	REFERENCES: FLOW DIAG. 2165 G 803 VENDOR DWG. 1364-2936	
INSTAL. REF:	TEMPERATURE	T		
QUALIF EXEMPT:	PRESSURE	P		
QUALIF:	REL. HUMIDTY	H		
STATUS:	CHEM. SPRAY	C		
	RADIATION	R		
PHYS DNG REF: CAR-2165 G 138 (F-17)	AGING	A		REVISION #:
PHYS DNG LUC:	SUBMERGENCE	S		DATE:
MOUNTING:	FSAR ENV CAT:			SYSTEM: CHEMICAL CONTROL
EQU. DNG LUC:	10588 CATEG.:	C		TAG: ICS V509 SB-1
	APPENDIX E			

EQUIPMENT DESCRIPTION		ENVIRONMENTAL PARAMETER ACTUAL		DEM. QUALITY	DOCUMENTATION ACTUAL DEM. QUALIF.		QUALIF. METHOD	N/M/OUTS	ITEMS
TAG NO: ICS V510 SB-1		OPERABILITY	40 YEARS		OPERABILITY			/	ACCEL TIME
EQUIPMENT VALVE TYPE: AIR OPERATED		NORM/TEST	1 YEAR		REVIEW				ACCEL TEMP
COMPONENTS: LIMIT SW.		TEMPERATURE	120° F NORM		FSAR TABLE			/	REPLACEMENT
MANUFACTURER: NAMCO			FSAR FIG. 3.11.4-1		9.4.0-1			H	
MAJOR SUPPLIER: COPEL VULCAN			FOR DBA		FSAR FIG. 3.11.4-1				MAINTAIN.
MODEL AND SERIAL #		PRESSURE	ATMOS. NORM.		FSAR SECT. 3.11.6 NORM.			/	SUBCOMPONENTS
FUNCTIONS & SERVICE			SEE FSAR FIG 3.11.6-1 FOR DBA		FIG. 3.11.6-1 FOR DBA			H	
ACCUM. SPEC: N/A		RELATIVE HUMIDITY	40% NORM		FSAR TABLE 9.4.0-1 NORM			/	
ACCUM. DEM.: N/A			100% DBA		FSAR SECT. 3.11.4.3 (DBA)			H	
SPECIFICATIONS:		CHEMICAL SPRAY	2000-2100 PRM BORON		FSAR SECT. 3.11.5-1			/	
P.O. #			PH 8.5-11.0						
PLANT LOC.: C.B.		R GAMMA	11.5 EG		FSAR SECT. 3.11B-18			/	
COORDINATES		A BETA	11.7 E7		CONT. RAD. ZONE C1			H	
X=1525.0		D SHIELD	100% BETA						
Y=1730.0		T.I.D.	11.1 EG						
Z=241.0		AGE			10 CFR 50 PARAGRAPH 50.51			/	SAFETY FUNCTION: RCS EXCESS LETDOWN
INSTALLED (Y/N):		INST LIFE	40 YEARS						
INSTALL. NEP:		(PER 323-1979 DEF.)							
QUALIF EXEMPT:		SURMERGED	228-3		FSAR SECT. 3.6			/	AUTH. REFERENCE
QUALIF:			YES						
STATUS:		PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:					QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
PHYS DNG REF: CAR-2165 9183(F-17)		OPERABILITY	O	REFERENCES: FLOW DIAGRAM 2165-G 803 VENDOR DWG. 1364-2936					REVISION #
PHYS DNG LUC:		TEMPERATURE	T						DATE
MOUNTING:		PRESSURE	P						
EN.DUC.LUC:		REL. HUMIDTY	H						
		CHEM. SPRAY	C						
		RADIATION	R	SYSTEM: CHEMICAL & VOLUME CONTROL					
		AGING	A	TAG: ICS V510 SB-1					
		SURMERGENCE	S						
		FSAR ENV CAT.							
		10588 CATEG.	C						
		APPENDIX E							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	W/M OUTH ITEMS
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL DEH. QUALIF.		
TAG NO: ICS V510 SB-1	OPERABILITY	40 YEARS NORMAL		OPERABILITY REVIEW		ACCEL TIME
EQUIPMENT TYPE: VALVE AIR OPERATED	NORM/TEST DBA	1 YEAR POST DBA				ACCEL TEMP
COMPONENT: SOL. VALVE	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA		FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1	H	REPLACEMENT
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA		FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)	H	MAINTAIN.
MAJOR SUPPLIER: COPES VULCAN	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	H	SUBCOMPONENTS
MODEL AND SERIAL #: FT 831654	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1		
FUNCTIONS & SERVICE	R GAMMA A BETA D SHIELD T.I.D.	1.15 E6 1.7 E7 100% BETA 1.1 E6		FSAR SECT. 3.11.B-18 CONT. RAD. ZONE C1	H	
ACCUR. SPEC: N/A	AGE- INST LIFE (PER 323-1979 DEF.)	40 YEARS		110 CFR 50 PARAGRAPH 50.51		SAFETY FUNCTION: RCS EXCESS LETDOWN
ACCUR. DEH.: N/A	SUBMERGED	228.3 YES		FSAR SECTION 3.6		AUTH. REFERENCE
SPECIFICATIONS:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
P.O. #: CHD #: 5H-288	OPERABILITY	O	REFERENCES: FLOW DIAG. 2165 G 803 VENDOR DWG. 1364-2936			REVISION # DATE
PLANT LOC.: C.B.	TEMPERATURE	T				
COORDINATES X=1525.0 Y=1730.0 Z=241.0	PRESSURE	P				
INSTALLED (Y/N):	REL. HUMIDTY	H				
INSTAL. REF:	CHEM. SPRAY	C				
QUALIF EXEMPTN:	RADIATION	R	SYSTEM CHEMICAL CONTROL			TAG: ICS V510 SB-1
QUALIF STATUS:	AGING	A	VOLUME			
PHYS DMG REF: CAR-2165 G138 (F-17)	SUBMERGENCE	S	TAG			
PHYS DMG LOC:	FSAR ENV CAT:					
MOUNTING:	FSAR CATEG.:	C				
EQ. DUC. LOC:	APPENDIX E					

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	N/M	UNITS
	PARAMETER	ACTUAL				
TAG NO: ZCS-V511SA-1	OPERABILITY	40 YEARS	OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT TYPE: VALVE GLOBE	NORM/TEST DDA	1 YEAR POST DBA				ACCEL TEMP
COMPONENT: SOLENOID	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		H	REPLACEMENT
MANUFACTURE: ASCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA	FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1 (DBA)		H	MAINTAIN.
HAZOP: COPEX VULCAN SUPPLIER	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)		H	SUBCOMPONENTS
MODEL AND SERIAL #: FT 831654	CHEMICAL SPRAY	2000-2100 PHM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1		H	
FUNCTIONS: CHEM. & VOLUME CONT. & SERVICE SERVING VALVE ZCS-V511SA-1	R GAMMA A BETA D SHIELD	1.2 E6 3.3 E7 T.I.D.	FSAR APP. 3.11.8-18 CONT. RAD. ZONE C3		H	
ACCUR. SPEC: N/A	AGE-INST LIFE	40 YEARS (PER 325-1974 DEF.)	10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION
ACCUR. DEH.: N/A	SUBMERGED	228.3 YES	FSAR SECTION		N/A	NONE
SPECIFICATIONS: W. PROJ. SPEC. 678959 02 W.E. SPEC. 678944 02	OTHER EQUIPMENT THIS CES APPLIES TO:					QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
P.O. #: 183622 CHD #: SK#0284	PARA-METER	SUPPL. REVIEW	REFERENCES: FLOW DIAG. CAR-2165 G 803			REVISION #
PLANT LOC.: C.B. 21	OPERABILITY	O				DATE
COORDINATES: X-1459.0 Y-1670.0 Z-248.0	TEMPERATURE	T				SYSTEM: CHEM. & VOLU. CONT.
INSTALLED (Y/M):	PRESSURE	P				TAG: ZCS-V511SA-1
INSTALL. REF: BY FLD.	REL. HUMIDTY	H				
QUALITY EXEMPT: N/A	CHEM. SPRAY	C				
STATUS:	RADIATION	R				
PHYS. DNG REF: CAR-2165 G-138	AGING	A				
PHYS. DNG LOC: TOTAL EQUIP. LIST	SUBMERGENCE	S				
HOUSING: N/A	FSAR ENV CAT:	A				
EDUC. LOC: 3.2	OSHA CATEG.:					
	APPENDIX E					

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS. ITEMS
	PARAMETER	ACTUAL	DEH.	QUALIF.			
TAG NO: 2CS-V511SA-1	OPERABILITY	40 YEARS			OPERABILITY REVIEW	/	ACCEL TIME:
EQUIPMENT TYPE: VALVE GLOBE	NORM/TEST DBA	1 YEAR POST DBA				/	ACCEL TEMP:
COMPONENT: LIMIT SW.	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1	/	REPLACEMENT:
MANUFACTURER: NAMCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA			FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)	/	MAINTAIN.:
MAJOR SUPPLIER: COPE'S VULCAN	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	/	SUBCOMPONENTS:
MODEL AND SERIAL #: EA170-11302	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1	/	
FUNCTIONS & SERVICE: CHEM. & VOLUME CONT. SERVING VALVE 2CS-V511SA-1	R GAMMA	1.266			FSAR APP 3.11.8-18 CONT. RAD. ZONE C3	/	
ACCUR. SPEC: N/A	A BETA	3.367				/	
ACCUR. DEH.: N/A	D SHIELD	T.I.D.				/	
SPECIFICATIONS: N. PROJ. SPEC. 678959 02 W.E. SPEC. 678844 02	AGE-INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51	/	SAFETY FUNCTION:
P.O. #: 183622 CMD # 1SK # 0284	(PER 323-1974 DEF.)					/	
PLANT LOC.: C.B. 21	SUBMERGED	228.3			FSAR SECTION	/	
COORDINATES: X=1459.0 Y=1670.0 Z=248.0		YES	N/A			N/A	AUTH. REFERENCE:
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
INSTAL. REF: BY FLD.	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G-803				
QUALIF EXEMPTN: N/A	TEMPERATURE	T					
QUALIF:	PRESSURE	P					
STATUS:	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DMG REF: CAR-2165 G-138	AGING	A					
PHYS DMG LOC: TOTAL EQUIP. LIST	SUBMERGENCE	S					
HUNTING: N/A	FSAR ENV CAT:	A					
EQ. DUC. LOC: 9.2	1958 CATEG.:						
	APPENDIX E						REVISION #:
							DATE:
							SYSTEM: CHEM. & VOLU. CONT.
							TAG: 2CS-V511SA-1

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION METHOD	ITEMS	
	PARAMETER	ACTUAL	DEN.	QUALIF.			ACTUAL
TAG NO: 2CS-V512SA-1	OPERABILITY	40 YEARS			OPERABILITY REVIEW		ACCEL TIME
EQUIPMENT TYPE: VALVE GLOBE	NORM/TEST	1 YEAR					ACCEL TEMP
COMPONENT: SOLENOID	DBA	POST DBA					REPLACEMENT
MANUFACTURE: ASCO	TEMPERATURE	120°F NORM			FSAR TABLE 9.4.0-1	/	MAINTAIN.
MAJOR SUPPLIER: COFES VULCAN	URE	FSAR FIG. 3.11.4-1			FSAR FIG. 3.11.4-1	H	SUBCOMPONENTS
MODEL AND SERIAL #: FT 83/654	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA			FSAR SECT. 3.11.6 NORM. FIG.	/	
FUNCTION & SERVICE: CHEM. & VOLUME CONT. SERVING VALVE 2CS-V512SA-1	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR SECT. 3.11.6-1 (DBA)	H	
ACCUR. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1	/	
ACCUR. DEN.: N/A	R GAMMA	1.2E6			FSAR APP. 3.11.8-18	/	
SPECIFICATIONS: PROJ. SPEC. 67895902 W.B. SPEC. 67884402	A BETA	3.3E7			CONT. RAD. ZONE C3	H	
P.O. #: 183622	AGE-INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51	/	SAFETY FUNCTION
PLANT LOC.: C.B. 21	(PER 323-1974 DEF.)						
COORDINATES: X-1458.0 Y-1669.0 Z-248.0	SUBMERGED	228.3			FSAR SECTION	/	
INSTALLED (Y/N): BY FLD.		YES		N/A		N/A	AUTH. REFERENCE

QUALITY EXEMPTION	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
N/A	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G-803	REVISION # : DATE : SYSTEM : CHEM. & VOLUME CONTROL TAG : 2CS-V512SA-1
	TEMPERATURE	T		
	PRESSURE	P		
	REL. HUMIDTY	H		
	CHEM. SPRAY	C		
	RADIATION	R		
	AGING	A		
	SUBMERGENCE	S		
	FSAR ENV CAT	A		
	OSOR CATEG.			
	APPENDIX E			



AS/EDAS/... SERVICES INC.
 UTILITIES ... POWER & LIGHT

FACILITY: SHEARON HAD...
 COMPONENT EVALUATION

ISSR: WESTINGHOUSE - PWR
 CAPACITY: 900 MW(E)

REV#- 0
 CES#-

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS. ITEMS
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL DEH. QUALIF.			
TAG NO: 2CS-V513SA-1	OPERABILITY	40 YEARS NORMAL	2	3	OPERABILITY REVIEW	/	ACCEL TIME
EQUIPMENT TYPE: VALVE GLOBE	NORM/TEST DBA	1 YEAR POST DBA					ACCEL TEMP
COMPONENT: SOLENOID	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1	/ H	REPLACEMENT
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA			FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)	/ H	MAINTENANCE
MAJOR SUPPLIER: COPES VULCAN	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	/ H	SUBCOMPONENTS
MODEL AND SERIAL #: FT 831654	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1	/ H	
FUNCTIONS & SERVICE: CHEM. & VOLUME CONT. SERVING VALVE 2CS-V513SA-1	R GAMMA	1.2E6			FSAR APP. 3.11.B-18 CONT. RAD. ZONE C3	/ H	
ACCUR. SPEC: N/A	A BETA	3.3E7					
ACCUR. DEH.: N/A	D SHIELD						
SPECIFICATIONS: W. PROJ. SPEC. 678959.02 W.E. SPEC. 678844.02	AGE-INST LIFE	40 YEARS (PER 323-1974 DEF.)			10 CFR 50 PARAGRAPH 50.51	/	SAFETY FUNCTION
P.O. # 183622	SUBMERGED	228.3 YES			FSAR SECTION	/	
PLANT LOC.: C.B. 21			N/A			N/A	AUTH. REFERENCE
COORDINATES X=1458.0 Y=1669.0 Z=248.0							
INSTALLED (Y/N): INSTAL. REF: BY FL2. QUALITY EXEMPTION: N/A	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G-803				
	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DNG REF: CAR-2165-9138	AGING	A				REVISION #	
PHYS DNG LOC: TOTAL EQUIP. LIST	SUBMERGENCE	S				DATE	
MOUNTING: N/A	FSAR ENV CAT:	A				SYSTEM: CHEM. & VOLUME CONTROL	
ED. DUC. LUC: 3.2	19588 CATEG.:					TAG: 2CS-V513SA-1	
	APPENDIX E						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL DEH. QUALIF.			
TAG NO: 2CS-V513SA-1	OPERABILITY	40 YEARS NORMAL		OPERABILITY REVIEW		/	ACCEL TIME:
EQUIPMENT TYPE: VALVE GLOBE	NORM/TEST	1 YEAR				/	ACCEL TEMP:
COMPONENT: LIMIT SW.	ODD	POST DBA				/	REPLACEMENT:
MANUFACTURER: NAMCO	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		H	MAINTAIN.:
MAJOR SUPPLIER: COPEL VULCAN	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA		FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1 (DBA)		H	SUBCOMPONENTS:
MODEL AND SERIAL #: EA170-11302	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		H	
FUNCTION: CHEM. & VOLUME CONT. & SERVICE SERVING VALVE 2CS-V513SA-1	CHEMICAL SPRAY	2000-2100 PH 8.5-11.0		FSAR SECT. 3.11.5.1		H	
ACCUM. SPEC: N/A	R GAMMA	1.2E6		FSAR APP 3.11.8-18		/	
ACCUM. DEH.: N/A	A BETA	3.3E7		CONT. RAD. ZONE C3		H	
SPECIFICATIONS: W. PRU. SPEC. 678959 02 W.F. SPEC. 678844 02	D SHIELD	T.I.D.				/	
P.O. #: 183622	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION:
PLANT LOC.: C.B. 21	SUBMERGED	228.3		FSAR SECTION		N/A	
COORDINATES X=1458.0 Y=1669.0 Z=298.0		YES	N/A			/	AUTH. REFERENCE:
INSTALLED (Y/N): INSTAL. REF: BY RLD. QUALIF EXEMPT: N/A	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
OPERABILITY	O		REFERENCES: FLOW DIAG. CAR-2165 G-803				
TEMPERATURE	T						
PRESSURE	P						
REL. HUMIDTY	H						
CHEM. SPRAY	C						
RADIATION	R						
PHYS DNG REFCAR-2165 G-138	AGING	A				REVISION #:	
PHYS DNG LUCI TOTAL EQUIP. LIST	SUBMERGENCE	S				DATE:	
MOUNTING: N/A	FSAR ENV CAT:	A				SYSTEM: CHEM & VOLL. CONTROL	
EV.DOC.LUCI: 9.2	1958 CATEG.:					TAG: 2CS-V513SA-1	
	APPENDIX E:						



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
TAG NO: 2CS-V5165A-1	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6 & 4.6 PAGE 11 & 25		ACCEL TIME: 15092 HOURS
EQUIPMENT TYPE: VALVE GLOBE	NORM/TEST DBA	1 YEAR	1 YEAR				ACCEL TEMP: 180°C
COMPONENT: MOTOR	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1 FOR DBA	SRS TABLE PAGE 1C THRU 6C	COMB. TYPE TEST & SUPP. REVIEW	REPLACEMENT: 40 YEARS
MANUFACTURER: LIMITORQUE	PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.6 NORM. & FIG. 3.11.4-1	REPORT 600456 PAGE 10 & 14	COMB. TYPE TEST & SUPP. REVIEW	MAINTAIN.
MAJOR SUPPLIER: WESTHS.		FSAR FIG. 3.11.8-1 FOR DBA	70 PSIG DBA	FSAR SECT. 13.11.6-1 (DBA)	SRS TABLE PAGE 2B		SUBCOMPONENTS: TORQUE & LIMIT SW.
MODEL AND SERIAL: SMB-00-10	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 4.4.3 PAGE 18	COMB. TYPE TEST & SUPP. REVIEW	SEE TAB E, PAGE 1E
FUNCTION & SERVICE: CHEM. & VOLU. CONT. SERVING VALVE 2CS-V5165A-1	CHEMICAL SPRAY	2000-2100 PPM	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	
ACCUM. SPEC: N/A		PH 8.5-11.0	PH 10.5-11.1		SRS TABLE PAGE 1D		
ACCUM. DEM.: N/A	H GAMMA	1.2 EG	130 EG	FSAR APP. 3.11.8-20	TEST REPORT SECT. 4.3 PAGE 12	COMB. TYPE TEST & SUPP. REVIEW	SEE TAB E PAGE 1G
SPECIFICATIONS: W. PROJ. SPEC. 952072 01 N.E. SPEC. 6678852 01	D SHIELD	100% BETA	100% BETA	CONT. RAD. ZONE C3	SRS TABLE PAGE 1G THRU 3G		
P.O. # 189234 CHD. # 15870266	AGE - INST LIFE (PER 323-1979 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 3.1.1 PAGE 3	COMB. TYPE TEST & SUPP. REVIEW	SEE TAB E, PAGE 1F
PLANT LOC.: C.B. 21	SURMERGED	228.3		FSAR SECTION 3.6	N/A		
COORDINATES X-1561.0 Y-1690.0 Z-245.0		YES	N/A		SRS TABLE PAGE 1A		
INSTALLED (Y/N): BY FLD.							

QUALIF EXEMPT: **N/A**

QUALIF: **QUALIFIED, AWAITING STATUS CONFIRMATORY DATA**

PHYS DWG REF: **CAR-2165 G147**

PHYS DWG LUC: **TOTAL EQUIP. INT MOUNTING**

EV. DOC. LUC: **W.P.O. 189234**

PARAMETER	SUPL. REVIEW
OPERABILITY	O HE-1
TEMPERATURE	T
PRESSURE	P
REL. HUMIDTY	H
CHEM. SPRAY	C
RADIATION	R
AGING	A
SURMERGENCE	S
FSAR ENV CAT	
ISSR CATEG. 1A	
APPENDIX F	

OTHER EQUIPMENT THIS CES APPLIES TO:

REFERENCES: **FLOW DIAG. CAR-2165 G-803**
LIMITORQUE TEST REPORT 600456

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: **HE-1**

REVISION # : **0**

DATE: **14-21-84**

SYSTEM: **CHEM. & VOLU. CONTROL**

TAG: **2CS-V5165A-1**

SAFETY FUNCTIONS: **SEE TAB "B" OF HE-1**

AUTH. REFERENCE: **M.J.H.**

UTILITIES		ENVIRONMENT		DOCUMENTATION		CAPACITY		900 MW(E)		CES#		
EQUIPMENT DESCRIPTION	PARAMETER		ACTUAL		ACTUAL		METHOD		N/M		UNITS	
			DEM. QUALIF.		DEM. QUALIF.						ITEMS	
TAG NO : 2CS-L520 SA-1	OPERABILITY	40 YEARS		OPERABILITY								ACCEL TIME
	ITY	NORMAL		REVIEW								
EQUIPMENT VALUE	NORM/TEST	1 YEAR										ACCEL TEMP
TYPE	DBA	POST DBA										
COMPONENT: MOTOR OPERATOR	TEMPERATURE	104° F NORM		FSAR TABLE								REPLACEMENT
		4 DBA		FSAR FIG.								
MANUFACTURER: LIMITORQUE	PRESSURE	ATMOS. NORM										MAINTAIN.
		4 DBA										
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM		FSAR TABLE								SUBCOMPONENTS
		100% DBA		9.4.0-1 NORM								
MODEL AND SERIAL #				FSAR SECT.								
FUNCTIONS & SERVICE				3.11.4.3 (DBA)								
	CHEMICAL SPRAY	N/A										
ACCUM. SPEC: N/A	R GAMMA	2.7 EG		FSAR FIG.								
	A BETA	NEGLIGIBLE		3.11B-24								
ACCUM. DEM.: N/A	D SHIELD	100% BETA		CONT. RAD.								
	T.I.D.	2.8 EG		ZONE R 14								
SPECIFICATIONS:	AGE											
P.O # : CND # :	INST LIFE	40 YEARS		10 CFR 50								SAFETY FUNCTION
	(PER 323-1979 DEF.)			PARAGRAPH 50.51								
PLANT LOC.: AB 24	SURMERGED	191-0										
		YES										AUTH. REFERENCE
COORDINATES X= 1543.0 Y= 1596.0 Z= 263.0												
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:					
INSTALL. NEP:	OPERABILITY	O										
QUALIF EXEMPTN:	TEMPERATURE	T										
QUALIFI:	PRESSURE	P										
STATUS:	REL. HUMIDTY	H										
	CHEM. SPRAY	C										
	RADIATION	R										
	AGING	A										
PHYS DNG HFF: CAR 2165 G 140	SURMERGENCE	S										
PHYS DNG LUC: B-9												
MOUNTING:	ISAN ENV CAT:	A										
EDUC. LUC:	1958 CATEG:											
	APPENDIX E											
			REFERENCES:				REVISION # :					
							DATE :					
							SYSTEM : CHEMICAL & VOLUME CONT.					
							TAG : 2CS L520 SA-1					

EQUIP. DESCRIP	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD		H/M/OUTS		
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL	DEM. QUALIF.	METHOD	ITEMS		
TAG NO: 2CS L521 SB-1	OPERABILITY	40 YEARS	2	OPERABILITY	3	5	6	7	
EQUIPMENT: VALVE TYPE	DBA	NORMAL		REVIEW					
COMPONENT: MOTOR OPERATOR	TEMPERATURE	104° F NORM		FSAR TABLE					
MANUFACTURER: LIMITORQUE	DBA	6 DBA		FSAR FIG.					
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. 6 DBA							
MODEL AND SERIAL #	RELATIVE HUMIDITY	120-90% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM					
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A		FSAR SECT. 3.11.4.3 (DBA)					
ACCUM. SPEC: N/A	R GAMMA	12.7 EG		FSAR FIG. 3.11B-24					
ACCUM. DEM.: N/A	A BETA	INEGLIGIBLE		CONT. RAD. ZONE R 14					
SPECIFICATIONS:	D SHIELD	100% BETA							
P.O #	T.I.D.	2.8 EG							
PLANT LOC.: AB 24	AGE-INST LIFE	40 YEARS		10 CFR 50 PARAGRAPH 50.51					
COORDINATES X-1546-0	(PER 323-1979 DEF.)								
Y-1596-0	SUBMERGED	191-0							
Z-263-0		YES							
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:		
QUALIF EXEMPT:	OPERABILITY	O	REFERENCES:						
QUALIF:	TEMPERATURE	T							
STATUS:	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DNG HFF: CAR-2165 G140	DAGING	A					REVISION #:		
PHYS DNG LUC: B-9	SUBMERGENCE	S					DATE:		
HUNTING:	ISAR ENV CAT:	A					SYSTEM: CHEMICAL CONTROL		
EDUC. LUC:	19588 CATEG.:						TAG: 2CS L521 SB-1		
	APPENDIX E:								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS		
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL	DEM.
TAG NO: ZCC-V184SA-1	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6 4-6 PAGE 11, 25	TYPE TEST	NONE	ACCEL TIME: 15092 HOURS	
EQUIPMENT: VALVE GATE	NORM/TEST	1 YEAR	1 YEAR					ACCEL TEMP: 180°C	
COMPONENT: MOTOR	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1 FOR DBA	SRS TABLE PAGE 1C THRU 6C	COMB. TYPE TEST & SUPP. REVIEW	H NONE	REPLACEMENT: 40 YEARS	
MANUFACTURER: LIMITORQUE	PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.6 NORM. 109 14	REPORT 600450, PAGE 109 14	COMB. TYPE TEST & SUPP. REVIEW	H NONE	MAINTAIN.	
MAJOR SUPPLIER: WESTHS.		FSAR FIG. 3.11.8-1 FOR DBA	70 PSIG DBA	FSAR SECT. 3.11.6-1 (DBA)	SRS TABLE PAGE 2B			SUBCOMPONENTS: LIMIT & TORQUE SW.	
MODEL AND SERIAL: SMB-00-10 211765	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 9.4.0-1 NORM	TEST REPORT SECT. 4.4.3 PAGE 18	COMB. TYPE TEST & SUPP. REVIEW	H NONE		
FUNCTION & SERVICE: COMP. COOLING & SERVING VALVE ZCC-V184SA-1	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0	3000 PPM BORON PH 10.5-11.1	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	H NONE		
ACCUM. SPEC: N/A					SRS TABLE PAGE 1D				
ACCUM. DEM.: N/A	R GAMMA	1.2 EG	130 EG	FSAR APP. 3.11.8-20	TEST REPORT SECT. 4.3 PAGE 12	COMB. TYPE TEST & SUPP. REVIEW	H	SEE TAB E PAGE 19	
SPECIFICATIONS: W. PROJ. SPEC. 952065 05 LIKE. SPEC. 678852 02	A BETA	3.3 EG	74 EG	CONT. RAD. ZONE C3	SRS TABLE PAGE 19 THRU 3G				
P.O. NO: 189267	D SHIELD	100% BETA	100% BETA						
PLANT LOC.: C.B. 21	T.I.D.	1.2 EG	204 EG						
COORDINATES: X-1555.0 Y-1671.0 Z-247.0	AGE-INST LIFE (PER 323-1979 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SEC. 301.1 PAGE 3	COMB. TYPE TEST & SUPP. REVIEW	/	SEE TAB E PAGE, IF	
	SURMERGED	228.3		FSAR SECTION 3.6	SRS TABLE PAGE 1F THRU 3F			SAFETY FUNCTION: SEE TAB "B" OF HE-1	
INSTALLED (Y/N): BY FLD.		YES	N/A						
QUALIF EXEMPT: N/A									
QUALIF: QUALIFIED, AWAITING	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1		
STATUS: CONFIRMATORY DATA	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G-821						
	TEMPERATURE	T	LIMITORQUE TEST REPORT 600450						
	PRESSURE	P						REVISION # : 0	
	REL. HUMIDTY	H						DATE: 14-21-84	
	CHEM. SPRAY	C						SYSTEM: COMP. COOLING WATER	
	RADIATION	R						TAG: ZCC-V184SA-1	
	AGING	A							
PHYS DNG HFF: CAR-2165 G-120	SURMERGENCE	S							
PHYS DNG LUCI: TOTAL EQUIP. LIST	ISAR ENV CAT: A								
MOUNTING	19588 CATEG.:								
EU.DUC.LUC: W. P.O. 189267	APPENDIX F.								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/HI	OUTS ITEMS
	PARAMETER	ACTUAL	DES. QUALIF.	ACTUAL			
TAG NO: ZCC-VI91SA-1	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6 & 4.6 PAGE 11 & 25	5	ACCEL TIME: 15092 HOURS
EQUIPMENT TYPE: VALVE GATE	NORM/TEST DBA	1 YEAR POST DBA	1 YEAR POST DBA				NONE
COMPONENT: MOTOR	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 1.4.0-1 FSAR FIG. 3.11.4-1 FOR DBA	SRS TABLE PAGE 1C THRU 6C	COMB. TYPE TEST & SUPP. REVIEW	H NONE
MAINT. ACTION: LIMITORQUE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)	REPORT 600450 PAGE 10 & 14	COMB. TYPE TEST & SUPP. REVIEW	H NONE
MAJOR SUPPLIER: WESTHS.	RELATIVE HUMIDITY	40% NORM	100% NORM.	FSAR TABLE 1.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)	TEST REPORT SECT. 4.4.3 PAGE 18 SRS TABLE PAGE 1E	COMB. TYPE TEST & SUPP. REVIEW	H NONE
MODEL AND SERIAL: SMB-00-15	CHEMICAL SPRAY	2000-2100 PPM BORON	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17 SRS TABLE PAGE 1D	COMB. TYPE TEST & SUPP. REVIEW	H NONE
FUNCTION: COMP. COOLING - & SERVICE SERVING VALVE ZCC-VI91SA-1	R GAMMA	1.2 EG	130 EG	FSAR APP. 3.11.8-20	TEST REPORT SEC. 4.3 PAGE 12	COMB. TYPE TEST & SUPP. REVIEW	H NONE
ACCUR. SPEC: N/A	A BETA	3.3 EG	74 EG	CONT. RAD. ZONE C3	SRS TABLE P. 1G THRU 3G		SEE TABLE PAGE 1G
ACCUR. DEF.: N/A	D SHIELD	100% BETA	100% BETA				
SPECIFICATIONS: W. PROJ. SPEC. 952065 05 W.E. SPEC. 678852 02	AGE - INST LIFE (PER 325-1979 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SEC. 3.1.1 PAGE 3 SRS TABLE PAGE 1F THRU 3F	COMB. TYPE TEST & SUPP. REVIEW	H NONE
P.O. # 189267 CHD # 15H#0959	SUBMERGED	228.3		FSAR SECTION 3.6	N/A		SEE TABLE PAGE 1F
PLANT LOC.: C. B. 21		YES	N/A		SRS TABLE PAGE 1A		NONE
COORDINATES: X-1542.0 Y-1655.0 Z-255.0							

INSTALLED (Y/M):
 INSTALL. REF: **BY FLD.**
 QUALIF. EXEMPT: **N/A**
 QUALIF. STATUS: **QUALIFIED, AWAITING CONFIRMATORY DATA**
 PHYS. DNG. REF: **CAR-2165 G-120**
 PHYS. DNG. LUC: **TOTAL EQUIP. LIST**
 MOUNTING:
 ED. DUC. LUC: **W.P.O. 189267**

PARAMETER	SUPPL. REVIEW
OPERABILITY	O HE-1
TEMPERATURE	T
PRESSURE	P
REL. HUMIDTY	H
CHEM. SPRAY	C
RADIATION	R
AGING	A
SUBMERGENCE	S
FSAR ENV. CAT. 10% NO. CAT. 1A	
APPENDIX E	

OTHER EQUIPMENT THIS CES APPLIES TO:
 REFERENCES: **FLOW DIAG. CAR-2165 G-821**
LIMITORQUE TEST REPORT 600450

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: **HE-1**
 REVISION # **10**
 DATE: **14-21-84**
 SYSTEM: **COMP. COOLING WATER**
 TAG: **ZCC-VI91SA-1**

A/E: EBAS SERVICES INC.
 UTILITY: MA POWER & LIGHT

FACILITY: SHEARON HAF 110.1
 COMPONENT EVALUATION

ISSUE: WESTINGHOUSE - PWH,
 CAPACITY: 900 MW(E)

REV: 0

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL			
TAG NO: 3CC LISA-1	OPERABILITY	40 YEARS	2	OPERABILITY REVIEW	3	/	ACCEL TIME
EQUIPMENT: VALVE	NORM/TEST	1 YEAR					ACCEL TEMP
COMPONENT: SOL. VALVE	DBA	POST DBA					REPLACEMENT
TEMPERATURE	104° F	NORM		FSAR TABLE 9.4.0-1		/	MAINTAIN.
MANUFACTURER: ASCO		DBA		FSAR FIG.		M	
MAJOR SUPPLIER: GRINNEL	PRESSURE	ATMOS. NORM		FSAR SECT.		/	SUBCOMPONENTS
		DBA				M	
MODEL AND SERIAL #	RELATIVE HUMIDITY	40% NORM		FSAR TABLE 9.4.0-1 NORM		/	
FUNCTIONS & SERVICE		100% DBA		FSAR SECT. 3.11.4.3(DBA)		H	
ACCUM. SPEC: N/A	CHEMICAL SPRAY	N/A		FSAR SECT. 3.11		/	
ACCUM. DEM.: N/A	R GAMMA	1.5 ES		FSAR SECT. 13.11B-21		/	
SPECIFICATIONS:	A BETA	7.2 E4		CONT. RAD. ZONE RG		H	
P.O. #	AGE- INST LIFE	40 YEARS		10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION: ISOLATE GROSS FAILED FUEL DETECTOR FROM PRIMARY SYSTEM.
PLANT LOC.: A.B.	(PER 323-1979 DEF.)						
COORDINATES X= 1519.0 Y= 1619.0 Z= 239.0	SUBMERGED	191°		FSAR SECT. 3.6		/	
INSTALL. REF:		YES					AUTH. REFERENCE:
QUALIF EXEMPT:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
QUALIF STATUS:	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR 2165 G824 VENDOR DWG. 1364-3345				REVISION # DATE
	TEMPERATURE	T					
	PRESSURE	P	SYSTEM COMPONENT COOLING				TAG 3CC LISA-1
	REL. HUMIDTY	H					
	CHEM. SPRAY	C	APPENDIX E				
	RADIATION	R					
PHYS DWG REF: CAR 2165 G123 (P-7)	AGING	A					
PHYS DWG LUC:	SUBMERGENCE	S					
INSTALLING:	FSAR ENV CAT: C						
EV. DUC. LUC:	0588 CATEG.						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER ACTUAL	DEM. QUALIF.	ACTUAL	DEM. QUALIF.			
TAG NO: BCC LISA-1	OPERABILITY	40 YEARS NORMAL	OPERABILITY REVIEW			/	ACCEL TIME
EQUIPMENT: VALVE TYPE	NORM/TEST DBA	1 YEAR POST DBA					ACCEL TEMP
COMPONENT: LIMIT SW.	TEMPERATURE	104° F NORM & DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 2.11B-2			M	REPLACEMENT
MANUFACTURER: NAMCO.	PRESSURE	ATMOS. NORM & DBA	FSAR SECT.			/	MAINTAIN.
MAJOR SUPPLIER: GRINNEL	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3(DBA)			M	SUBCOMPONENTS
MODEL AND SERIAL: EA170 14302 & EA170 15302	CHEMICAL SPRAY	N/A	FSAR SECT. 3.11			/	
FUNCTIONS & SERVICE	R GAMMA	1.5 ES	FSAR SECT. 3.11B-21			/	
ACCUM. SPEC: N/A	A BETA	7.2E4	CONT. RAD. ZONE RC			H	
ACCUM. DEM.: N/A	D SHIELD	100% BETA					
SPECIFICATIONS:	T.I.D.	1.6 ES					
P.O #: CND # 15H.965	AGE-INST LIFE (PER 523-1974 DEF.)	40 YEARS	10 CFR 50 PARAGRAPH 50.51			/	SAFETY FUNCTION: ISOLATE GROSS FAILED FUEL DETECTOR FROM PRIMARY SYSTEM
PLANT LOC.: A.B.	SUBMERGED	191°	FSAR SECT. 3.6			/	
COORDINATES X= 1519.0 Y= 1619.0 Z= 239.0		YES					AUTH. REFERENCES
INSTALLED (Y/M):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
INSTALL. KEYS	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR 2165 G 824 VENDOR DWG. 1364-3345				REVISION # 1 DATE
QUALIF EXEMPT:	TEMPERATURE	T					
QUALIF:	PRESSURE	P					
STATUS:	REL. HUMIDITY	H					
	CHEM. SPRAY	C					
PHYS DNG KEYS CAR 2165 G123 (D7)	RADIATION AGING	R A					
PHYS DNG LUC:	SUBMERGENCE	S					
MOUNTING:	FSAR ENV CAT:	C					SYSTEM COMPONENT COOLING
EDUC. LUC:	1958 CATEG.:						TAG BCC LISA-1
	APPENDIX E						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	I/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
TAG NO: 3CC L2 SB-1	OPERABILITY	40 YEARS			OPERABILITY REVIEW	/	ACCEL TIME
EQUIPMENT: VALVE TYPE	NORM/TEST DBA	NORMAL 1 YEAR POST DBA					ACCEL TEMP
COMPONENT: LIMIT SW	TEMPERATURE	104° F NORM 4 DBA			FSAR TABLE 9.4.0-1 FSAR FIG.	M	REPLACEMENT
MANUFACTURER: NAMCO	PRESSURE	ATMOS. NORM 4 DBA			FSAR SECT.	/	MAINTAIN.
MAJOR SUPPLIER: GRINNEL						M	SUBCOMPONENTS
MODEL AND SERIAL: EA17014302 EA17015302	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	H	
FUNCT. DESIG & SERVICE	CHEMICAL SPRAY	N/A			FSAR SECT. 3.11	/	
ACCUM. SPEC: N/A	R GAMMA A BETA D SHIELD T.I.D.	1.5 E5 7.2 E4 100% BETA 1.6 E5			FSAR SECT. 3.11B-21 CONT. RAD. ZONE R6	H	
ACCUM. DEM.: N/A	AGE-INST LIFE (PER 323-1979 DEF.)	40 YEARS			10 CFR 50 PARAGRAPH 50.51	/	SAFETY FUNCTION: ISOLATE GROSS FAILED FUEL DETECTOR FROM PRIMARY SYSTEM
SPECIFICATIONS: P.O. # CND # 1966							
PLANT LOC.: A.B.							
COORDINATES X=1520.0 Y=1620.0 Z=239.0	SURMERGED	191'0 YES			FSAR SECT. 3.6	/	AUTH. REFERENCE
INSTALLED (Y/N):							
INSTAL. REF:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
QUALIF EXEMPT:	OPERABILITY	O					
QUALIF STATUS:	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DMG REF: CAR-2165 9123(D-7)	AGING	A					
PHYS DMG LUC: MOUNTING	SURMERGENCE	S					
EQ. DUC. LUC:	FSAR ENV CAT: 10588 CATEG. APPENDIX E	C					
			REFERENCES: FLOW DIAG. CAR 2165 9824 VENDOR DWG. 1364-3345				REVISION #: DATE:
							SYSTEM & COMPONENT COOLING
							TAG: 3CC L2 SB-1

A/E: EBAS SERVICES INC.
 UTILITY: CALIFORNIA POWER & LIGHT

FACILITY: SHEARON HAD
 COMPONENT EVALUATION

ISSN: WESTINGHOUSE - PWR
 CAPACITY: 900 MW(E)

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIFICATION METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: 3CC L2 SB-1	OPERABILITY	40 YEARS	OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT: VALVE TYPE	NORM/TEST DBA	NORMAL 1 YEAR POST DBA				ACCEL TEMP
COMPONENT: SOL. VALVE	TEMPERATURE	104°F NORM 4 DBA	FSAR TABLE 9.4.0-1 FSAR FIG.		M	REPLACEMENT
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. 4 DBA	FSAR SECT.		M	MAINTAIN.
MAJOR SUPPLIER: GRINNEL	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		H	SUBCOMPONENTS
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A	FSAR SECT. 3.11		/	
ACCUR. SPEC: N/A	R GAMMA	1.5 E5	FSAR SECT. 13.11B-21		H	
ACCUR. DEM.: N/A	A BETA	7.2 E4	CONT. RAD. ZONE RG		/	
SPECIFICATIONS:	D SHIELD	100% BETA			/	
P.O. #	T.I.D.	1.6 E5			/	
PLANT LOC.: A.B.	AGE - INST LIFE (PER 323-1974 DEF.)	40 YEARS	10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION: ISOLATE GROSS FAILED FUEL DETECTOR FROM PRIMARY SYSTEM
COORDINATES X= 1520.0 Y= 1620.0 Z= 239.0	SUBMERGED	191'0 YES	FSAR SECT. 13.6		/	AUTH. REFERENCE
INSTALLED (Y/N): INSTAL. KEYS QUALIF EXEMPT:	PARAMETER	SUPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:		
QUALIF:	OPERABILITY	O				
STATUS:	TEMPERATURE	T				
	PRESSURE	P				
	REL. HUMIDTY	H				
	CHEM. SPRAY	C				
	RADIATION	R				
PHYS DNG REF: CAR-2165 G 123 (D-7)	AGING	A				
PHYS DNG LUC:	SUBMERGENCE	S				
MOUNTING:	FSAR ENV CAT:	C	REFERENCES: FLOW DIAG CAR 2165 G 824 VENDOR DWG. 1364-3345	REVISION #: DATE:		
EDUC. LUC:	FSAR CATEG.:			SYSTEM COMPONENT COOLING		
	APPENDIX E			TAG: 3CC L2 SB-1		

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL DEH. QUALIF.				
TAG NO: HYDROGEN RECOMBINER 1A-SA	OPERABILITY	40 YEARS NORMAL	2	OPERABILITY REVIEW	3	4	5	ACCEL TIME
EQUIPMENT TYPE: HYDROGEN RECOMBINER	NORM/TEST DBA	1 YEAR POST DBA						ACCEL TEMP
COMPONENT: HYDROGEN RECOMBINER	TEMPERATURE	120° F NORM 385° F FOR DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1				REPLACEMENT
MANUFACTURER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA		FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)				MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE STURDAVANT DIVISION	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)				SUBCOMPONENTS: POWER SUPPLY & CONTROL PANEL
MODEL AND SERIAL: A (EHR) 58	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1				
FUNCTIONS: SEE SP-1, TAB B & SERVICE	R GAMMA A BETA D SHIELD T.I.D.	1.3 E7 3.7 E8 100% BETA 1.3 E7		FSAR APP. 3.11.8 CONT. RAD. ZONE CG				
ACCUR. SPEC: N/A	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51				SAFETY FUNCTION: SEE TAB B, SP-1
ACCUR. DEM.: N/A	SUBMERGED	228.3 YES		FSAR SECTION 3.6				AUTH. REFERENCE: M.J.H.
EQUIP. SPEC. 679012721 SPECIFICATIONS: PROJ. SPEC. N/A	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: SP-1	
P.O. # 217308 CHD #	OPERABILITY	0 SP-1	REFERENCES: EQUIP. QUAL. DATA PKG., EQDP-SP-1					
PLANT LOC.: C.D.	TEMPERATURE	T						
COORDINATES X- Y- Z- 286.0	PRESSURE	P						
INSTALLED (Y/M):	REL. HUMIDTY	H						
INSTALL. REF: BY FIELD	CHEM. SPRAY	C						
QUALIF EXEMPT: NO	RADIATION	R					REVISION #	
QUALIF:	AGING	A					DATE	
STATUS:	SUBMERGENCE	S					SYSTEM: HYDROGEN CONT. (RECOMBINER)	
PHYS DNG REF: CAR 2166 G 453	FSAR ENV CAT:	A					TAG: 1A-SA	
PHYS DNG LUC:	1958 CATEG.:							
MOUNTING: FLOOR	APPENDIX E							
EQ. DUC. LUC: W P.O. 217308								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS			
	PARAMETER	ACTUAL	DEH.	QUALIF.				ACTUAL	DEH.	QUALIF.
TAG NO : HYDROGEN RECOMBINER 1B-5B	OPERABILITY	40 YEARS NORMAL	2	OPERABILITY REVIEW	3	4	5	6	7	ACCEL TIME:
EQUIPMENT TYPE	NORM/TEST DBA	1 YEAR POST DBA								ACCEL TEMP:
COMPONENT: HYDROGEN RECOMBINER	TEMPERATURE	120°F NORM 1385°F FOR DBA		FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1						REPLACEMENT:
MANUFACTURER: WESTINGHOUSE STURDAVANT DIVISION	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA		FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1(DBA)						MAINTAIN.:
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3(DBA)						SUBCOMPONENTS: POWER SUPPLY CONTROL PANEL
MODEL AND SERIAL # : A (EHR) 59	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1						
FUNCTIONS: SEE SP-1, TAB "B" & SERVICE	R GAMMA A BETA D SHIELD T.I.D.	1.3 E7 3.7 E8 100% BETA 1.3 E7		FSAR APP. 3.11.8 CONT. RAD. ZONE CG						
ACCUR. SPEC: N/A	AGE- INST LIFE (PER 325-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51						SAFETY FUNCTION: SEE TAB "B", SP-1
ACCUR. DEH.: N/A	SUBMERGED	228.3 YES		FSAR SECTION 3.61						AUTH. REFERENCE: M.J.H.
EQPT. SPEC. 679012R2 SPECIFICATIONS: PROJ. SPEC. N/A	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:			
P.O # : 217308 CND # :	OPERABILITY	O	REFERENCES: EQUIP. QUAL. DATA PKG. EQDP-SP-1				REVISION # : DATE : SYSTEM : HYDROGEN CONT. (RECOMBINER) TAG : 1B-5B			
PLANT LOC. : C.B.	TEMPERATURE	T								
COORDINATES X- Y- Z- 286.0	PRESSURE	P								
INSTALLED (Y/N) : INSTAL. REF: BY FIELD	REL. HUMIDTY	H								
QUALIF EXEMPT: NO	CHEM. SPRAY	C								
PHYS DNG REF: CAR 2166 G 453	RADIATION AGING	R A								
PHYS DNG LOC: MOUNTING : FLOOR	SUBMERGENCE	S								
EQ. DUC. LOC: W. P.O. 217308	FSAR ENV CAT:	A								
	FSAR CATEG.:	0588								
	APPENDIX E									

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: PT ICT 0950	OPERABILITY	40 YEARS	OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: SENSOR TYPE	NORM/TEST	NORMAL				ACCEL TEMP
COMPONENT: PRESS. XMTR.	DBA	POST DBA				REPLACEMENT
MANUFACTURER: BARTON	TEMPERATURE	104° F NORM 104° F DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-5		M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. 4 DBA			M	SUBCOMPONENTS
MODEL AND SERIAL #: 752	RELATIVE HUMIDITY	20-90% NORM. 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M	
FUNCTIONS: CONTAINMENT & SERVICE PRESSURE	CHEMICAL SPRAY	N/A			M	
ACCUM. SPEC: N/A	R GAMMA	2.5 E4	FSAR FIG. 3.11B-24		H	
ACCUM. DEN.: N/A	A BETA	4.4 E5	(CONT. RAD. ZONE RII			
SPECIFICATIONS: E. SPEC 95333, R0 PROJECT SPEC N/A	D SHIELD	100% BETA				
P.O. # 404835 CHD # 1 SH. 185	T.I.D.	2.6 E4				SAFETY FUNCTION
PLANT LOC.: AB 31	AGE-INST LIFE	40 YEARS	10 CFR 50 PARAGRAPH 50.51			
COORDINATES X- Y- Z- 265'6	(PER 323-1979 DEF.)					
INSTALL (Y/II):	SUBMERGED	191-0 YES	FSAR SECT. 3.6			AUTH. REFERENCE
INSTAL. NEP BY FIELD	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
QUALIF EXEMPT: N/A	OPERABILITY	O	REFERENCES:			
QUALIFI	TEMPERATURE	T				
STATUS	PRESSURE	P				
	REL. HUMIDTY	H				
	CHEM. SPRAY	C				
PHYS DNG NEP CAR 2166 G436 S05	RADIATION	R				REVISION #
PHYS DNG LUCI G-7	AGING	A				DATE
MOUNTING	SUBMERGENCE	S				SYSTEM CONTAINMENT SPRAY
EDUC. LUCI P.O. 404835	ISAR ENV CAT					TAG
	10500 CATEG.	D				PT ICT 0950
	APPENDIX E					



EQUIPMENT DESCRIPTION		ENVIRONMENTAL PARAMETER ACTUAL		DEM. QUALIF.	DOCUMENTATION ACTUAL DEM. QUALIF.		QUALIF. METHOD	N/H/ M/ UITS	ITEMS
TAG NO: PT ICT 0951		OPERABILITY	40 YEARS		OPERABILITY REVIEW				ACCEL TIME
EQUIPMENT: SENSOR TYPE		INDHM/TEST	1 YEAR						ACCEL TEMP
COMPONENT: PRESS. XMTR.		TEMPERATURE	104°F NORM 104°F DBA		FSAR TABLE 19.4.0-1 FSAR FIG. 13.11B-5		M		REPLACEMENT
MANUFACTURER: BARTON		PRESSURE	ATMOS. NORM. 4 DBA				M		MAINTENANCE
MAJOR SUPPLIER: WESTINGHOUSE		RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M		SUBCOMPONENTS
FUNCTIONS: CONTAINMENT & SERVICE PRESSURE		CHEMICAL SPRAY	N/A				M		
ACCUM. SPEC: N/A		R GAMMA	2.5 E4		FSAR FIG. 13.11B-24		H		
ACCUM. DEM.: N/A		A BETA	4.4 ES		CONT. RAD. ZONE R11				
SPECIFICATIONS: E. SPEC 95333, R0 PROJECT SPEC. N/A		D SHIELD	100% BETA						
P.O. NO. 404835 CND # 1 SH. 105		T.I.D.	2.6 E4						
PLANT LOC.: AB 31		AGE - INST LIFE	40 YEARS		110 CFR 50 PARAGRAPH 50.51				SAFETY FUNCTIONS
COORDINATES X= Y= Z= 265'6		SUBMERGED	191-0 YES		FSAR SECT. 13.6				AUTH. REFERENCES
INSTALLED (Y/N):		RARA-SUPPL. BY FIELD		OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
QUALIF EXEMPT: N/A		OPERABILITY	O	REFERENCES:					
QUALIF:		TEMPERATURE	T						
STATUS:		PRESSURE	P						
		REL. HUMIDITY	H						
		CHEM. SPRAY	C						
PHYS DNG REF: CAR 2166 G436 S05		RADIATION	R					REVISION #	
PHYS DNG LUC: G-B		AGING	A					DATE	
MOUNTING:		SUBMERGENCE	S					SYSTEM CONTAINMENT SPRAY	
EQUIP. LUC: P.O. 404835		FSAR ENV CAT: 10588 CATEG. D	D					TAG: PT ICT 0951	
		APPENDIX E							

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	ITEMS
PARAMETER		ACTUAL	DEM. QUALIF.	ACTUAL	DEM. QUALIF.		
TAG NO: PT ICT 0952		OPERABIL- ITY	40 YEARS		OPERABILITY REVIEW		ACCEL TIME
EQUIPMENT: SENSOR TYPE		NORM/TEST DBA	NORMAL 1 YEAR POST DBA				ACCEL TEMP
COMPONENT: PRESS. XMTR.		TEMPERAT- URE	104° F NORM 104° F DBA		FSAR TABLE 19.4.0-1 FSAR FIG. 3.11B-5	M	REPLACEMENT
MAINTALTYER: BARTON		PRESSURE	ATMOS. NORM. 14 DBA			M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE		RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	M	SUBCOMPONENTS
MODEL AND SERIAL #: 752		CHEMICAL SPRAY	N/A			M	
FUNCTIONS: CONTAINMENT & SERVICE PRESSURE		R GAMMA	2.5 E4		FSAR FIG. 13.11B-24		
ACCUM. SPEC: N/A		A BETA	4.4 E5		CONT. RAD. ZONE RII	H	
ACCUM. DEM.: N/A		D SHIELD	100% BETA				
E. SPEC 95333, RO SPECIFICATIONS: PROJECT SPEC. N/A		T.I.D.	2.6 E4				
P.O. # 404835 CND # 1 SH 185		AGE - INST LIFE	40 YEARS		10 CFR 50 PARAGRAPH 50.51		SAFETY FUNCTION
PLANT LOC.: AB 31		(PER 323- 1979 DEF.)					
COORDINATES X= Y= Z= 265'6		SUBMERGED	191-0 YES		FSAR SECT. 13.6		AUTH. REFERENCE
INSTALLED (Y/N): INSTAL. NEP BY FIELD QUALIF EXEMPT: N/A		RARA- METEN	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
QUALIFI STATUS		OPERABILITY	O	REFERENCES:			
		TEMPERATURE	T				
		PRESSURE	P				
		REL. HUMIDTY	H				
		CHEM. SPRAY	C				
		RADIATION	R				
PHYS DNG NEFCAR2166436 505		TACTIC	A			REVISION #	
PHYS DNG LUC: G-15		SUBMERGENCE	S			DATE	
MOUNTING							
EV. DUC. LUC: P.O. 404835		FSAR ENV CAT:				SYSTEM CONTAINMENT SPRAY	
		10500 CATEG.:	D			TAG	
		APPENDIX E				PT ICT 0952	

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	UTS	RESP.
PARAMETER		ACTUAL	DEM. QUALIF.	ACTUAL	DEM. QUALIF.			ITEMS	
TAG NO: PT-ICT 0953		OPERABILITY	40 YEARS	OPERABILITY					ACCEL TIME
EQUIPMENT: SENSOR		TEMPERATURE	104°F NORM	REVIEW					ACCEL TEMP
COMPONENT: PRESS. XMTR.		DBA	POST DBA						
MANUFACTURER: BARTON		TEMPERATURE	104°F DBA	FSAR TABLE					REPLACEMENT
MAJOR SUPPLIER: WESTINGHOUSE		PRESSURE	ATMOS. NORM.	9.4.0-1		M			
MODEL AND SERIAL #: 752		RELATIVE HUMIDITY	20-90% NORM.	FSAR FIG.					MAINTAIN.
FUNCTIONS: CONTAINMENT & SERVICE PRESSURE		CHIMICAL SPRAY	N/A	3.11B-5					SUBCOMPONENTS
ACCUM. SPEC: N/A		R GAMMA	2.5 E4	FSAR TABLE					
ACCUM. DEM.: N/A		A BETA	4.4 E5	9.4.0-1 NORM.					
SPECIFICATIONS: PROJECT SPEC. N/A		D SHIELD	100% BETA	FSAR SECT.		M			
P.O. # 404835		T.I.D.	2.6 E4	3.11.4.3 (DBA)					
PLANT LOC.: AB 31		AGE-INST LIFE	40 YEARS						SAFETY FUNCTION
COORDINATES X=		(PER 323-1974 DEF.)		FSAR FIG.					
Y=		SURMERGED	191-0	3.11B-24		H			
Z= 265'6"			YES	CONT. RAD. ZONE R11					
INSTALLED (Y/N):		OTHER EQUIPMENT THIS CES APPLIES TO:							
QUALIF. EXEMPT: N/A		PARAMETER	SUPPL. REVIEW	FSAR SECT.					AUTH. REFERENCE
QUALIF. STATUS:		OPERABILITY	O	3.6					
PHYS. DNG. REF. CAR 2106 G436 S05		TEMPERATURE	T						QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
PHYS. DNG. LUCI D-17		PRESSURE	P						
MOUNTING:		REL. HUMIDITY	H	REFERENCES:					
EQUIP. LUCI: P.O. 404835		CHIM. SPRAY	C						
		RADIATION	R						
		AGING	A						REVISION #
		SURMERGENCE	S						DATE
		ISAN ENV. CAT. 10588 CATEG. 1 APPENDIX E							SYSTEM CONTAINMENT SPRAY
									TAG: PT-ICT 0953

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS		
	PARAMETER ACTUAL	DEN. QUALIF.	ACTUAL	DEN. QUALIF.					
TAG NO: LT-1FW474	OPENABILITY	40 YEARS	16 YRS. NORMAL	OPERABILITY REVIEW	TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE	NONE	ACCEL TIME: 1673 HOURS	
EQUIPMENT: SENSOR TYPE	NORM/TEST DBA	1 YEAR	16.5 MO. POST DBA		SRS TAB E PAGE 1B THRU 5B	REVIEW		ACCEL TEMP: 125°C	
COMPONENT: LEVEL XMTR.	TEMPERATURE	120°F NORM	104°F NORM	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE	H	NORM. SERV. TEMP. SEE TAB 5.99 YEARS	
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR FIG. 3.11.4-1 FOR DBA	FSAR FIG. 3.11.4-1	TEST REPORT SECT. 5.4		REPLACEMENT: 5.99 YEARS	
MAJOR SUPPLIER: WESTINGHOUSE		FSAR FIG. 3.11.8-1 FOR DBA	180 PSIA DBA	1 FIG. 13.11.6-1 (DBA)	SRS TAB E Pg. 3D	REVIEW	H	MAINTENANCE: O-RINGS REPLACED 1 YR. CONNECTORS @ 5 YEARS SUBCOMPONENTS: O-RINGS & CONNECTORS	
MODEL AND SERIAL: 764 1154	RELATIVE HUMIDITY	40% NORM	100% DBA	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE	H	NONE	
FUNCTION: FEEDWATER LVL. & SERVICE				FSAR SECT. 3.11.4.3 (DBA)	SRS TAB E Pg. 3D	REVIEW			
ACCUM. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PPM	12500 PPM	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	COMB. TYPE	H	NONE	
ACCUM. DEN.: N/A	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11.2-20	TEST REPORT SECT. 5.2 Pg. 10 & 11	COMB. TYPE	H	NONE	
SPECIFICATIONS: PROJECT SPEC. 95328R1 WE. SPEC. DWG 8765D45, R3	A BETA	3.3 E7	174.38 EG	CONT. RAD. ZONE C3	SRS TAB E Pg. 1C, 2C & 3C	REVIEW			
P.O. # 407118 CHO # 1993	D SHIELD	100% BETA	100% BETA						
PLANT LOC.: CB 21	T.I.D.	1.2 EG							
COORDINATES X=1454.0 Y=1709.0 Z=236.0	AGE-INSTR LIFE (PER 323-1979 DEF.)	40 YEARS	5.99 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20	COMB. TYPE		NONE	
INSTALLED (Y/N):	SURMERGED	228.3		FSAR SECTION 13.6	SRS TAB E Pg. 1B THRU 5B	REVIEW			
INSTAL. MFP: BY FIELD	YES		N/A						
QUALIF EXEMPT: N/A	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION		
QUALIF REQUIRES ANALYSIS STATUS	OPERABILITY	O ESE 3A	REFERENCES: FLOW DIAG. CAR 2165 G044				PACKAGES ESE-3A		
	TEMPERATURE	T							
	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
MYS DWG REF: CAR 2165 G451	AGING	A					REVISION # 10		
MYS DWG LUC: INSTRUMENT LIST	SURMERGENCE	S					DATE: 6-21-84		
COUNTING							SYSTEM: FEED WATER		
P.O. DOC. LUC: W. NO. 407118	FSAR ENV CAT: A						TAG: LT-1FW474		
	10588 CATEG: A								
	APPENDIX E								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION		N/M	OUTS	ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.	ACTUAL	DEM.				QUALIF.
TAG NO: LT-1FW475	OPERABILITY	40 YEARS	16 YRS.	NORMAL	OPERABILITY	TEST REPORT	COMB. TYPE		ACCEL TIME:	
	ITY	NORMAL			REVIEW	SECT. 7.0	TEST & SUPP.	NONE	1673 HOURS	
EQUIPMENT: SENSOR	NORM/TEST	1 YEAR	16.5 MO.			PAGE 17 THRU 20				
TYPE	DBA	POST DBA	POST DBA			SRS TABLE	REVIEW		ACCEL TEMP:	
COMPONENT: LVL. XMTR.						PAGE 18 THRU 25			125 °C	
MANUFACTURER: BARTON	TEMPERATURE	120 °F NORM.	104 °F NORM.		FSAR TABLE	TEST REPORT	COMB. TYPE		REPLACEMENT:	
		FSAR FIG. 3.11.4-1	420 °F DBA		19.4.0-1	SECT. 5.1	TEST & SUPP.	H	5.99 YEARS	
MAJOR SUPPLIER: WESTINGHOUSE		FOR DBA	DBA		FSAR FIG. 3.11.4-1	PAGE 9 & 10	REVIEW			
	PRESSURE	ATMOS. NORM.	ATMOS. NORM.		FSAR SECT. 13.11.6	SRS TABLE	REVIEW		MAINTENANCE	
		FSAR FIG. 3.11.8-1	80 PSIA DBA		13.11.6-1 (DBA)	SECT. 5.4	TEST & SUPP.	H	O-RINGS REPLACED @ 1 YR.	
		FOR DBA	DBA		13.11.6-1 (DBA)	Pg. 14	REVIEW		CONNECTORS @ 5 YEARS	
MODEL AND SERIAL: 764 1155	RELATIVE HUMIDITY	40% NORM.	100% DBA		FSAR TABLE	TEST REPORT	COMB. TYPE		SUBCOMPONENTS:	
		100% DBA	100% DBA		19.4.0-1 NORM.	SECT. 5.4	TEST & SUPP.	H	O-RINGS & CONNECTORS	
FUNCTION: FEED WATER LVL. & SERVICE					FSAR SECT. 13.11.4.3 (DBA)	SRS TABLE	REVIEW			
						Pg. 3D				
	CHEMICAL SPRAY	12000-2100 PPM BORON	12500 PPM BORON		FSAR SECT. 13.11.5.1	TEST REPORT	COMB. TYPE			
		PH 8.5-11.0	PH 10.7			SECT. 6.4	TEST & SUPP.	H	NONE	
ACCUM. SPEC: N/A						Pg. 16	REVIEW			
						SRS TABLE				
						Pg. 4D				
ACCUM. DEM.: N/A	R GAMMA	1.2 EG	168.10 EG		FSAR FIG. 13.11.20	TEST REPORT	COMB. TYPE			
	A BETA	3.3 E7	174.38 EG			SECT. 5.2	TEST & SUPP.	H	NONE	
	D SHIELD	100% BETA	100% BETA		CONT. RAD. ZONE C3	Pg. 10 & 11	REVIEW			
	T.I.D.	1.2 EG				SRS TABLE				
						Pg. 10, 22 & 30				
P.O. # 407118 CHD # 1495	AGE-INST LIFE	40 YEARS	5.99 YEARS		110 CFR 50 PARAGRAPH 50.51	TEST REPORT	COMB. TYPE		SAFETY FUNCTION:	
	(PER 323-1974 DEF.)					SECT. 7.5	TEST & SUPP.	NONE	SEE ESE-3A, TAB 'D'	
PLANT LOC.: CB 21						Pg. 20	REVIEW			
						SRS TABLE				
						Pg. 1B THRU 5B				
COORDINATES X=1456.0 Y=1717.0 Z=236.0	SURVEYED	228.3	N/A		FSAR SECTION 13.6	N/A	N/A		AUTH. REFERENCE:	
		YES	N/A			SRS TABLE			M.J.H.	
						Pg. 1E				
INSTALL (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIED TO:				QUALIFICATION SIGN-OFF			
INSTALL. REF: BY FIELD	OPERABILITY	0 ESE 3A					FOUND IN DOCUMENTATION			
QUALIF EXEMPT: N/A	TEMPERATURE	T					PACKAGE: ESE-3A			
QUALIFI REQUIRES ANALYSIS	PRESSURE	P								
STATUS	REL. HUMIDTY	H								
	CHEM. SPRAY	C								
	RADIATION	R								
	LAGING	A								
PHYS DNG REF: CAR 2165 G451	EMERGENCY	S								
PHYS DNG LUG: INSTRUMENT LIST										
MOUNTING										
EQ. DOC. LUG: W/NO. 407118	FSAR ENV CAT: A									
	19588 CATEG. A									
	APPENDIX E									
			REFERENCES:				REVISION # : 0			
			FLOW DIAG. CAR 2165 G044				DATE : 6-21-84			
							SYSTEM :			
							FEED WATER			
							TAB : LT-1FW475			

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/WI UITS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL		
TAB NO: LT-1FW 476	OPERABILITY	40 YEARS	16 YRS. NORMAL	OPERABILITY	TEST REPORT SECT. 7.0 PAGE 17 THRU 20	ACCEL TIME: 1673 HOURS
EQUIPMENT: SENSOR TYPE	ITY	NORMAL		REVIEW	COMB. TYPE TEST & SUPP.	NONE
COMPONENT: LVL. XMTR.	NORM/TEST	1 YEAR	16.5 MO.		SRS TAB E PAGE 18 THRU 5B	ACCEL TEMP: 125 °C
MANUFACTURER: BARTON	DBA	POST DBA	POST DBA		REVIEW	REPLACEMENT: 5.99 YEARS
MAJOR SUPPLIER: WESTINGHOUSE	TEMPERATURE	120 °F NORM	104 °F NORM.	FSAR TABLE	TEST REPORT SECT. 5.1 PAGE 9 (10)	NORM. SERV. TEMP. SER. TAB
MODEL AND SERIAL: 764 1156	URE	FSAR FIG. 3.11.4-1	420 °F DBA	FSAR FIG. 3.11.4-1	COMB. TYPE TEST & SUPP. REVIEW	IK
FUNCTION: FEEDWATER LVL. & SERVICE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 Pg. 14	M. NONE
ACCUM. SPEC: N/A	FOR DBA	180 PSIA DBA		3.11.6-1 (DBA)	SRS TAB E Pg. 3D	
ACCUM. DEM.: N/A	RELATIVE HUMIDITY	40% NORM.	100% DBA	FSAR TABLE	TEST REPORT SECT. 5.4 Pg. 14	H. NONE
SPECIFICATIONS: PROJECT SPEC. 95328, WE. SPEC. DWG 8765D45, R 3	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	H. NONE
P.O. # 407118 CND # 1944	PH	8.5-11.0	10.7		SRS TAB E Pg. 4D	
PLANT LOC.: CB 21	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11.2-20	TEST REPORT SECT. 5.2 Pg. 10 (11)	H. NONE
COORDINATES X=1460.0 Y=1725.0 Z=236.0	A BETA	3.3 E7	17438 EG	CONT. RAD. ZONE C3	SRS TAB E Pg. 16, 2C & 3C	
INSTALLED (Y/N): BY FIELD	D SHIELD	100% BETA	100% BETA		TEST REPORT SECT. 7.5 Pg. 20	NONE
QUALIF. EXEMPT: N/A	T.I.D.	1.2 EG		110 CFR 50 PARAGRAPH 50.51	SRS TAB E Pg. 1B THRU 5B	
QUALIF. REQUIRES ANALYSIS STATUS	AGE		5.99 YEARS		REVIEW	SAFETY FUNCTION: SEE ESE-3A, TAB B
PHYS. DWG. REF: CAR 2165 G45	INST LIFE	40 YEARS				
PHYS. DWG. LUGS INSTRUMENT LIST MOUNTING	(PER 323-1974 DEF.)					
EQ. DUC. LUGS W/ NO. 407118	SURMERGED	228.3	N/A	FSAR SECTION 3.6	N/A	NONE
	YES				SRS TAB E Pg. 1E	
						AUTH. REFERENCE: M.J.H.
	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-3A
	OPERABILITY	O ESE 3A	REFERENCES:			REVISION # : 0
	TEMPERATURE	T	FLOW DIAG. CAR 2165 G044			DATE : 6-21-84
	PRESSURE	P				SYSTEM : FEED WATER
	REL. HUMIDTY	H				TAB : LT-1FW 476
	CHEM. SPRAY	C				
	RADIATION	R				
	AGING	A				
	SURMERGENCE	S				
	FSAR ENV CAT:	A				
	19580 CATEG.:	A				
	APPENDIX E					

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/MI OUTS ITEMS										
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL			DEM. QUALIF.									
TAG NO: LT-IFW 477	OPERABIL-ITY	40 YEARS	16 YRS. NORMAL	OPERABILITY REVIEW	TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE TEST & SUPP.	ACCEL TIME: 1673 HOURS									
EQUIPMENT: SENSOR TYPE	NORM/TEST DBA	1 YEAR	16.5 MO.	POST DBA	SRS TABLE PAGE 18 THRU 25	REVIEW	ACCEL TEMP: 125 °C									
COMPONENT: LVL. XMTR.	TEMPERATURE	120 °F NORM	104 °F NORM.	FSAR TABLE 19.4.0-1 FSAR FIG. 13.11.4-1 FOR DBA	TEST REPORT SECT. 5.1 PAGE 9 & 10 SRS TABLE P. 10 & 3B	COMB. TYPE TEST & SUPP. REVIEW	NORM. SERV. TEMP. SEE TAB K									
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. 1 FIG. 13.11.6-1 (DBA)	TEST REPORT SECT. 5.4 Pg. 14 SRS TABLE P. 3D	COMB. TYPE TEST & SUPP. REVIEW	REPLACEMENT: 5.99 YEARS									
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM. 100% DBA	100% DBA	FSAR TABLE 19.4.0-1 NORM. 1 FSAR SECT. 3.11.4.3 (DBA)	TEST REPORT SECT. 5.4 Pg. 14 SRS TABLE P. 3D	COMB. TYPE TEST & SUPP. REVIEW	MAINTAIN. O-RINGS REPLACED 1 YR. CONNECTORS @ 5 YEARS									
MODEL AND SERIAL: 764 1163	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	PH 8.5-11.0 PH 10.7	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16 SRS TABLE P. 4D	COMB. TYPE TEST & SUPP. REVIEW	SUBCOMPONENTS: O-RINGS & CONNECTORS								
PUMP, USE: FEED WATER LVL. & SERVICE	R GAMMA	1.2 EG	16810 EG	A BETA	3.3 EG	D SHIELD	100% BETA	100% BETA	T.I.D. 1.2 EG	AGE-INST LIFE	40 YEARS	5.99 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 PAGE 20	COMB. TYPE TEST & SUPP. REVIEW	SAFETY FUNCTION: SEE ESE-3A, TAB D
ACCUM. SPEC: N/A	ACCUM. DEM.: N/A	SPECIFICATIONS: PROJECT SPEC. 9532871 WE. SPEC. DWG 8765D45, R3		PLANT LOC.: CB 21	COORDINATES X=1454.0 Y=1709.0 Z=236.0	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-3A									
INSTALL. REF: BY FIELD	QUALIF EXEMPT: N/A	QUALIF REQUIRES ANALYSIS	STATUS	PHYS DWG REF: CAR 2165 G451	PHYS DWG LUCI INSTRUMENT LIST MOUNTING	EQ. DOC. LUCI W/NO. 407118	REFERENCES: FLOW DIAG. CAR 2165 G044	REVISION # 10	DATE: 6-21-84	SYSTEM: FEED WATER	TAG: LT-IFW 477					
PARAMETER	SUPPL. REVIEW	OPERABILITY	TEMPERATURE	PRESSURE	REL. HUMIDTY	CHEM. SPRAY	RADIATION	AGING	SUBMERGENCE	SAR ENV CAT: A	1958 CATEG: A	APPENDIX E	AUTH. REFERENCE: M.J.H.			

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A/1 OUTS ITEMS		
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL				DEM. QUALIF.
TAG NO: LT-IFW 484	OPERABIL-ITY	40 YEARS	16 YRS. NORMAL	OPERABILITY TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE TEST & SUPP.	NONE	ACCEL TIME: 1673 HOURS	
EQUIPMENT: SENSOR TYPE	NORM/TEST	1 YEAR	6.5 MO.	SRS TAB E PAGE 18 THRU 5B	REVIEW		ACCEL TEMP: 125 °C	
COMPONENT: LVL. XMTR.	TEMPERATURE	120° F NORM	104° F NORM.	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	H	REPLACEMENT: 5.99 YEARS	
MANUFACTURER: BARTON	FSAR FIG.	3.11.4-1 FOR DBA	420° F DBA	FSAR FIG. 3.11.4-1	SRS TAB E Pg. 10, 8B		MAINTAIN. O-RINGS REPLACED @ 1 YR. CONNECTORS @ 5 YEARS	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 Pg. 14	H	SUBCOMPONENTS: O-RINGS & CONNECTORS	
MODEL AND SERIAL: 764 1157	FSAR FIG.	3.11.8-1 FOR DBA	80 PSIA DBA	FSAR FIG. 3.11.6-1 (DBA)	TEST REPORT SECT. 5.4 Pg. 3D			
FUNCTION: FEED WATER LVL. & SERVICE	RELATIVE HUMIDITY	40% NORM.	100% DBA	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 5.4 Pg. 14	H		
	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	H		
ACCUM. SPEC: N/A	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11.2-20	TEST REPORT SECT. 5.2 Pg. 10 & 11	H		
ACCUM. DEM.: N/A	A BETA	3.5 E7	174.38 E6	CONT. RAD. ZONE C3	SRS TAB E Pg. 10, 2C & 3C			
SPECIFICATIONS: PROJECT SPEC. 9532871, W.E. SPEC. DWG 8765D45, R 3	D SHIELD	100% BETA	100% BETA	T.I.D.	1.2 EG			
P.O. # 1407118 CHD # 1993	AGE-INDST LIFE	40 YEARS	5.99 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20		SAFETY FUNCTION: SEE ESE-3A, TAB 'D'	
PLANT LOC.: CB 21	(PER 523-1974 DEF.)				SRS TAB E Pg. 18 THRU 5B			
COORDINATES X=1503.0 Y=1646.0 Z=236.0	SURMERGED	228.3	N/A	FSAR SECTION 13.6	N/A		AUTH. REFERENCE: M.J.H.	
INSTALLED (Y/II):	YES				SRS TAB E Pg. 1E			
INSTAL. REF: BY FIELD	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION	
QUALIF EXEMPT: N/A	OPERABILITY	O ESE 3A	REFERENCES:				PACKAGE: ESE-3A	
QUALIF REQUIRES ANALYSIS	TEMPERATURE	T	FLOW DIAG. CAR 2165 G 044					
STATUS	PRESSURE	P						
	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
PHYS DWG REF: CAR 2165 G 431	TAGING	A					REVISION # 10	
PHYS DWG LUCI INSTRUMENT LIST	SURMERGENCE	S					DATE: 6-21-84	
MOUNTING	FSAR ENV CAT: A	A					SYSTEM: FEED WATER	
EQ. DUC. LUCI W/NO. 407118	10588 CATEG.: A	A					TAG: LT-IFW 484	
	APPENDIX E							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/MI OUTS ITEMS	ACCEL TIME		
	PARAMETER	ACTUAL	DEN.	QUALIF.				ACTUAL	QUALIF.
TAB NO: LT-IFW 486	OPERABIL-ITY	40 YEARS	16 YRS.	NORMAL	OPERABILITY TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE TEST & SUPP. REVIEW	NONE	1673 HOURS	
EQUIPMENT: SENSOR TYPE	NORM/TEST DBA	1 YEAR	6.5 MO.		SRS TABLE PAGE 18 THRU 5B			ACCEL TEMP: 125 °C	
COMPONENT: LVL. XMTR.	TEMPERATURE	120 °F NORM	104 °F NORM.		FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE TEST & SUPP. REVIEW	NORM. SERV. TEMP. SECT TAB 1K	
MANUFACTURER: BARTON	FSAR FIG. 3.11.4-1 FOR DBA		420 °F DBA		FSAR FIG. 3.11.4-1	SRS TABLE 19.10.4.3B		REPLACEMENT: 5.99 YEARS	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.		FSAR SECT. 3.11.6 NORM.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP. REVIEW	M. NONE	
	FSAR FIG. 3.11.8-1 FOR DBA		80 PSIA DBA		FSAR FIG. 3.11.6-1 (DBA)	SRS TABLE Pg. 3D		MAINTAIN. O-RINGS REPLACED @ 1 YR. CONNECTORS @ 5 YEARS SUBCOMPONENTS O-RINGS & CONNECTORS	
MODEL AND SERIAL: 764 1159	RELATIVE HUMIDITY	40% NORM.	100% DBA	100% DBA	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP. REVIEW	H. NONE	
FUNCTION: FEEDWATER LVL. & SERVICE	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	PH 8.5-11.0	PH 10.7	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	COMB. TYPE TEST & SUPP. REVIEW	H. NONE
ACCUM. SPEC: N/A	R GAMMA	1.2 EG	168.10 EG			FSAR FIG. 3.11.2-20	TEST REPORT SECT. 5.2 Pg. 10 & 11	COMB. TYPE TEST & SUPP. REVIEW	H. NONE
ACCUM. DEN.: N/A	A BETA	3.3 E7	17438 E6			CONT. RAD. ZONE C3	SRS TABLE Pg. 1C, 2C & 3C		
SPECIFICATIONS: PROJECT SPEC. 95528R1 WE. SPEC. DWG 8765D45, R 3	D SHIELD	100% BETA	100% BETA			T.I.D.			
P.O. # 40718 CHD # 194	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS	5.99 YEARS		110 CFR 50 PARAGRAPH 50.51		TEST REPORT SECT. 7.5 Pg. 20	COMB. TYPE TEST & SUPP. REVIEW	NONE
PLANT LOC.: CB 21	BURNEGED	228.3					SRS TABLE Pg. 1B THRU 5B		SAFETY FUNCTION, SEE ESE-3A, TAB 'D'
COORDINATES X=1648.0 Y=1646.0 Z=236.0		YES	N/A		FSAR SECTION 13.6	N/A	SRS TABLE Pg. 1E	N/A	AUTH. REFERENCE: M.J.H.
INSTALLED (Y/II):	INSTALL. KEYS: BY FIELD	QUALIF EXEMPT: N/A	QUALIF REQUIRES ANALYSIS	STATUS	PHYS DWG KEYS: CAR 2165 G451	PHYS DWG LISTS INSTRUMENT LIST MOUNTING	EQ. DOC. LISTS W/NO. 40718	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-3A
	PARAMETER	SUPPL. REVIEW							
	OPERABILITY	O ESE 3A							
	TEMPERATURE	T							
	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
	TAGING	A							
	BURNEGENCE	S							
	FSAR ENV. CAT.	A							
	10588 CATEG.	A							
	APPENDIX E								
	REFERENCES:				FLOW DIAG. CAR 2165 G044				
	REVISION #	10							
	DATE	6-21-84							
	SYSTEM	FEED WATER							
	TAG	LT-IFW 486							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: LT-1FW487	OPERABILITY	40 YEARS	16 YRS.	NORMAL	OPERABILITY TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE TEST & SUPP.	NONE	ACCEL TIME: 1673 HOURS
EQUIPMENT: SENSOR TYPE	NORM/TEST	1 YEAR	6.5 MO.		REVIEW			ACCEL TEMP: 125 °C
COMPONENT: LVL.XMTR.	IOBA	POST DBA	POST DBA					REPLACEMENT: 5.99 YEARS
MANUFACTURER: BARTON	TEMPERATURE	120° F NORM	104° F NORM	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 9 (10)	COMB. TYPE TEST & SUPP.	H	NORM. SERV. TEMP. SEE TAB K
MAJOR SUPPLIER: WESTINGHOUSE	FSAR FIG.	3.11.4-1 FOR DBA	420° F DBA	FSAR FIG. 3.11.4-1	FSAR TABLE Pg. 1D, 3B	REVIEW		REPLACEMENT: 5.99 YEARS
MODEL AND SERIAL: 764 1164	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP.	H	MAINTENANCE: O-RINGS REPLACED 1 YR. CONNECTORS 50 YEARS
MAINTENANCE: BARTON	FSAR FIG.	3.11.8-1 FOR DBA	180 PSIA DBA	FSAR FIG. 3.11.6-1 (DBA)	FSAR TABLE Pg. 3D	REVIEW		SUBCOMPONENTS: O-RINGS & CONNECTORS
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM.	100% DBA	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP.	H	NONE
MODEL AND SERIAL: 764 1164	FSAR FIG.	3.11.8-1 FOR DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	FSAR TABLE Pg. 3D	REVIEW		NONE
MAINTENANCE: BARTON	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	COMB. TYPE TEST & SUPP.	H	NONE
MAJOR SUPPLIER: WESTINGHOUSE	PH	8.5-11.0	10.7		FSAR TABLE Pg. 4D	REVIEW		NONE
MODEL AND SERIAL: 764 1164	R GAMMA	1.2 EG	16810 EG	FSAR FIG. 3.11.2-20	TEST REPORT SECT. 5.2 Pg. 10 & 11	COMB. TYPE TEST & SUPP.	H	NONE
MAINTENANCE: BARTON	A BETA	3.3 EG	17438 EG	CONT. RAD. ZONE C3	FSAR TABLE Pg. 1C, 2C & 3C	REVIEW		NONE
MAJOR SUPPLIER: WESTINGHOUSE	D SHIELD	100% BETA	100% BETA					NONE
MODEL AND SERIAL: 764 1164	T.I.D.	1.2 EG						NONE
MAINTENANCE: BARTON	AGE		5.99 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20	COMB. TYPE TEST & SUPP.		NONE
MAJOR SUPPLIER: WESTINGHOUSE	INST LIFE (PER 323-1974 DEF.)	40 YEARS			FSAR TABLE Pg. 1B THRU 5B	REVIEW		NONE
MODEL AND SERIAL: 764 1164	PLANT LOC.	CB 21						NONE
MAINTENANCE: BARTON	COORDINATES X=1496.0 Y=1646.0 Z=236.0							NONE
MAJOR SUPPLIER: WESTINGHOUSE	EMERGENCY	228.3		FSAR SECTION 13.6	N/A			NONE
MODEL AND SERIAL: 764 1164	YES		N/A		FSAR TABLE Pg. 1E	REVIEW		NONE
MAINTENANCE: BARTON	INSTALL (Y/N):							NONE
MAJOR SUPPLIER: WESTINGHOUSE	INSTAL. NEFI BY FIELD							NONE
MODEL AND SERIAL: 764 1164	QUALIF EXEMPT: N/A							NONE
MAINTENANCE: BARTON	OPERABILITY							NONE
MAJOR SUPPLIER: WESTINGHOUSE	TEMPERATURE							NONE
MODEL AND SERIAL: 764 1164	PRESSURE							NONE
MAINTENANCE: BARTON	REL. HUMIDTY							NONE
MAJOR SUPPLIER: WESTINGHOUSE	CHEM. SPRAY							NONE
MODEL AND SERIAL: 764 1164	RADIATION							NONE
MAINTENANCE: BARTON	AGING							NONE
MAJOR SUPPLIER: WESTINGHOUSE	EMERGENCY							NONE
MODEL AND SERIAL: 764 1164	FSAR ENV CAT: A							NONE
MAINTENANCE: BARTON	10588 CATEG. A							NONE
MAJOR SUPPLIER: WESTINGHOUSE	APPENDIX E							NONE

OTHER EQUIPMENT THIS CES APPLIES TO:

REFERENCES:

FLOW DIAG. CAR 2165 G094.

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE ESE-8A

REVISION # 10
 DATE 6-21-84
 SYSTEM: FEED WATER
 TAG: LT-1FW487

PROJECT SPEC. 95328, R1
 WE. SPEC. DWG 8765245, R3

P.O. # 40718 CHD # 1995

PLANT LOC. CB 21

COORDINATES X=1496.0
 Y=1646.0
 Z=236.0

INSTALL (Y/N):

INSTAL. NEFI BY FIELD

QUALIF EXEMPT: N/A

OPERABILITY

TEMPERATURE

PRESSURE

REL. HUMIDTY

CHEM. SPRAY

RADIATION

AGING

EMERGENCY

FSAR ENV CAT: A

10588 CATEG. A

APPENDIX E

EQUIP. DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A/OUTS ITEMS		
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL				DEM. QUALIF.
TAG NO: LT-1FW494	OPERABILITY	40 YEARS	16 YRS. NORMAL	OPERABILITY	TEST REPORT SECT. 7.0	COMB. TYPE		ACCEL TIME: 1673 HOURS
EQUIPMENT: SENSOR TYPE	NORM/TEST	1 YEAR	16.5 MO.	REVIEW	PAGE 17 THRU 20	TEST & SUPP.	NONE	ACCEL TEMP: 125°C
COMPONENT: LVL. XMTR.	TEMPERATURE	120°F NORM	104°F NORM	FSAR TABLE	SRS TAB E PAGE 18 THRU 58	REVIEW		REPLACEMENT: 5.99 YEARS
MANUFACTURER: BARTON		FSAR FIG. 3.11.4-1 FOR DBA	420°F DBA	19.4.0-1 FSAR FIG. 3.11.4-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE TEST & SUPP. REVIEW	H	MAINTAIN: O-RINGS REPLACED @ 1 YR. CONNECTORS @ 5 YEARS
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. & FIG.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP. REVIEW	H	SUBCOMPONENTS: O-RINGS & CONNECTORS
MODEL AND SERIAL: 764 1160	RELATIVE HUMIDITY	40% NORM.	100% DBA	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP.	H	
FUNCTIONS: FEED WATER LVL. & SERVICE				FSAR SECT. 3.11.4.3 (DBA)	SRS TAB E Pg. 3D	REVIEW		
ACCUM. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	COMB. TYPE TEST & SUPP. REVIEW	H	
ACCUM. DEM.: N/A		PH 8.5-11.0	PH 10.7		SRS TAB E Pg. 4D	REVIEW		
SPECIFICATIONS: PROJECT SPEC. 95328, R1 W.E. SPEC. DWG 8765D45, R3	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11B-20	TEST REPORT SECT. 5.2 Pg. 10 & 11	COMB. TYPE TEST & SUPP. REVIEW	H	
P.O. # 407118 CND # 1995	A BETA	3.3 EG	174.38 EG	CONT. RAD. ZONE C3	SRS TAB E Pg. 1C, 2C & 3C	REVIEW		
PLANT LOC.: CB 21	D SHIELD	100% BETA	100% BETA					
COORDINATES X=1531.0 Y=1736.0 Z=236.0	T.I.D.	1.2 EG						
INSTALLED (Y/II):	AGE		5.99 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20	COMB. TYPE TEST & SUPP. REVIEW		SAFETY FUNCTIONS: SEE ESE-3A, TAB B
INSTALL. KEYS: BY FIELD	INST LIFE (PER 323-1974 DEF.)	40 YEARS			SRS TAB E Pg. 1B THRU 58	REVIEW		
QUALIF EXEMPT: N/A	BURNED	228.3		FSAR SECTION 13.6				
OPERABILITY REQUIRES ANALYSIS	YES		N/A		SRS TAB E Pg. 1E	REVIEW		AUTH. REFERENCE: M.J.H.

PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION
OPERABILITY	O ESE 3A		PACKAGE: ESE-3A
TEMPERATURE	T		
PRESSURE	P		
REL. HUMIDTY	H		
CHEM. SPRAY	C		
RADIATION	R		
AGING	A		
EMERGENCE	S		
FSAR ENV CAT: 19588 CATEG. A	A		
APPENDIX E			

REFERENCES: FLOW DIAG. CAR 2165 9049

REVISION: 0
DATE: 6-21-84
SYSTEM: FEED WATER
TAG: LT-1FW494

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	W/M	UTS ITEMS		
	PARAMETER	ACTUAL	DEM.	QUALIF.					ACTUAL
TAG NO: LT-1FW495	OPERABIL-ITY	40 YEARS	16 YRS.	NORMAL	OPERABILITY TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE		ACCEL TIME: 1673 HOURS	
EQUIPMENT: SENSOR	NORM/TEST	1 YEAR	6.5 MO.						
COMPONENT: LVL.XMTR.	DBA	POST DBA	POST DBA		SRS TABLE PAGE 18 THRU 58	REVIEW		ACCEL TEMP: 125 °C	
MANUFACTURER: BARTON	TEMPERAT-URE	120 °F NORM	104 °F NORM.		FSAR TABLE 19.4.0-1 SECT. 5.1 PAGE 9 & 10	TEST REPORT COMB. TYPE TEST & SUPP. REVIEW		REPLACEMENT: 5.99 YEARS	
MAJOR SUPPLIER: WESTINGHOUSE	DBA	FSAR FIG. 3.11.4-1 FOR DBA	420 °F DBA		FSAR FIG. 3.11.4-1	SRS TABLE 3.11.4.3		MAINTAIN. O-RINGS REPLACED @ 1 YR. CONNECTORS @ 5 YEARS	
MODEL AND SERIAL: 764 1161	PRESSURE	ATMOS. NORM.	ATMOS. NORM.		FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 Pg. 14		SUBCOMPONENTS: O-RINGS & CONNECTORS	
FUNCT. USE: FEEDWATER LVL. & SERVICE	RELATIVE HUMIDITY	40% NORM.	100% DBA		FSAR TABLE 19.4.0-1 NORM. FIG.	TEST REPORT SECT. 5.4 Pg. 14			
ACCUM. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PPM	12500 PPM		FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16			
ACCUM. DEM.: N/A	R GAMMA	1.2 EG	168.10 EG		FSAR FIG. 3.11.B-20	TEST REPORT SECT. 5.2 Pg. 10 & 11			
SPECIFICATIONS: PROJECT SPEC. 95528R1 WE. SPEC. DWG 8765D45, R 3	A BETA	3.3 E7	174.38 EG		CONT. RAD. ZONE C3	SRS TABLE Pg. 1C, 2C & 3C			
P.O # 407118 CHD. # 1993	D SHIELD	100% BETA	100% BETA		110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20		SAFETY FUNCTIONS: SEE ESE-2A, TAB D	
PLANT LOC.: CB 21	AGE - INST LIFE (PER 323-1974 DEF.)	40 YEARS	5.99 YEARS			SRS TABLE Pg. 1D THRU 5B			
COORDINATES X=1336.0 Y=1730.0 Z=236.0	SURMERGED	228.3	N/A		FSAR SECTION 13.6	N/A			
INSTALLED (Y/II):	YES					SRS TABLE Pg. 1E		AUTH. REFERENCE: M.J.H.	
INSTAL. NEFI BY FIELD	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-2A		
QUALIF. EXEMPT: N/A	OPERABILITY	O ESE 2A							
QUALIFI. REQUIRES ANALYSIS	TEMPERATURE	T							
STATUS	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DWG NEFI: CAR 2165 G451	AGING	A							
PHYS DWG LUG: INSTRUMENT LIST	SURMERGENCE	S							
MOUNTING									
EQ. DUC. LUG: W/NO. 407118	FSAR ENV CAT:	A							
	10588 CATEG.:	A							
	APPENDIX E								
			REFERENCES: FLOW DIAG. CAR 2165 G 044				REVISION # : 0		
							DATE: 6-21-84		
							SYSTEM: FEED WATER		
							TAG: LT-1FW495		

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL				DEM. QUALIF.
TAG NO: LT-1FW496	OPERABIL-ITY	40 YEARS	16 YRS. NORMAL	OPERABILITY REVIEW	TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE SUPP.	NONE	ACCEL TIME: 1673 HOURS
EQUIPMENT SENSOR TYPE	NORM/TEST	1 YEAR	16.5 MO.		SRS TABLE PAGE 18 THRU 58	REVIEW		ACCEL TEMP: 125 °C
COMPONENT: LVL. XMTR.	TEMPERATURE	120 °F NORM	104 °F NORM	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE SUPP.	H	NORM. SERV. TEMP. SEE TAB K
MANUFACTURER: BARTON	FSAR FIG.	3.11.4-1 FOR DBA	420 °F DBA	FSAR FIG. 3.11.4-1	SRS TABLE PAGE 18 THRU 58	REVIEW		REPLACEMENT: 5.99 YEARS
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 13.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE SUPP.	H	NONE
MODEL AND SERIAL: 764 1162	FSAR FIG.	3.11.8-1 FOR DBA	80 PSIA DBA	FSAR FIG. 13.11.6-1 (DBA)	SRS TABLE Pg. 3D	REVIEW		MAINTAIN. O-RINGS REPLACED 1 YR. CONNECTORS 5 YEARS SUBCOMPONENTS O-RINGS & CONNECTORS
PUMP USE: FEED WATER LVL. & SERVICE	RELATIVE HUMIDITY	40% NORM. 100% DBA	100% DBA	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE SUPP.	H	NONE
	FSAR SECT.			FSAR SECT. 13.11.4.3 (DBA)	SRS TABLE Pg. 3D	REVIEW		
	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 13.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	COMB. TYPE SUPP.	H	NONE
ACCUM. SPEC: N/A	PH	8.5-11.0	10.7		SRS TABLE Pg. 4D	REVIEW		
ACCUM. DEN: N/A	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11.2-20	TEST REPORT SECT. 5.2 Pg. 10 & 11	COMB. TYPE SUPP.	H	NONE
SPECIFICATIONS: PROJECT SPEC. 953281 WE. SPEC. DWG 8765D45, R 3	A BETA	3.3 EG	174.38 EG	CONT. RAD. ZONE C3	SRS TABLE Pg. 16, 22 & 30	REVIEW		
P.O. # 1407118 CND # 1994	D SHIELD	100% BETA	100% BETA					
PLANT LOC.: CB 21	T.I.D.	1.2 EG						
COORDINATES X=1544.0 Y=1723.0 Z=236.0	AGE - INST LIFE	40 YEARS	5.99 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20	COMB. TYPE SUPP.		NONE
	(PER 323-1974 DEF.)				SRS TABLE Pg. 18 THRU 58	REVIEW		SAFETY FUNCTION: SEE ESE-2A, TAB 'D'
	BURMEGED	228.3		FSAR ISECTION 13.6	N/A			
	YES		N/A		SRS TABLE Pg. 1E			AUTH. REFERENCE: M.J.H.

QUALIF. EXEMPT	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
N/A	OPERABILITY	O ESE 2A		ESE-2A
REQUIRES ANALYSIS	TEMPERATURE	T		
STATUS	PRESSURE	P		
	REL. HUMIDTY	H		
	CHEM. SPRAY	C		
	RADIATION	R		
PHYS DWG REF: CAR 2165 G431	AGING	A		
PHYS DWG LUCI INSTRUMENT LIST MOUNTING	SUBMERGENCE	S		
EQ. DOC. LUCI W/NO. 407118	FSAR ENV CAT	A		
	19588 CATEG.	A		
	APPENDIX E			

REFERENCES: FLOW DIAG. CAR 2165 G044

REVISION # 10
 DATE 6-21-84
 SYSTEM: FEED WATER
 TAG: LT-1FW496

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A/OUTS ITEMS		
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: LT-1FW497	OPERABIL- ITY	40 YEARS	16 YRS.	NORMAL	OPERABILITY TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE TEST & SUPP.	NONE	ACCEL TIME: 1673 HOURS
EQUIPMENT: SENSOR TYPE	NORM/TEST 10BA	1 YEAR	6.5 MO.	POST DBA	SRS TAB E PAGE 18 THRU 5B	REVIEW		ACCEL TEMP: 125 °C
COMPONENT: LVL. XMTR.	TEMPERAT- URE	120 °F NORM	104 °F NORM	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1	TEST REPORT SECT. 5.1 PAGE 9 & 10 SRS TAB E Pg. 1D & 3B	COMB. TYPE TEST & SUPP. REVIEW	H	NORM. SERV. TEMP. SERV. TAB 5.99 YEARS
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. { FIG. 3.11.6-1 (DBA)	TEST REPORT SECT. 5.4 Pg. 14 SRS TAB E Pg. 3D	COMB. TYPE TEST & SUPP. REVIEW	H	MAINTAIN. O-RINGS REPLACED 1 YR. CONNECTORS @ 5 YEARS SUBCOMPONENTS: O-RINGS & CONNECTORS
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM. 100% DBA	100% DBA	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 5.4 Pg. 14 SRS TAB E Pg. 3D	COMB. TYPE TEST & SUPP. REVIEW	H	NONE
MODEL AND: 764 SERIAL #: 1165	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16 SRS TAB E Pg. 4D	COMB. TYPE TEST & SUPP. REVIEW	H	NONE
FUNCTIONS: FEEDWATER LVL. & SERVICE	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11B-20	TEST REPORT SECT. 5.2 Pg. 10 & 11 SRS TAB E Pg. 1C, 2C & 3C	COMB. TYPE TEST & SUPP. REVIEW	H	NONE
ACCUM. SPEC: N/A	A BETA	3.3 E7	174.38 EG	CONT. RAD. ZONE C3				
ACCUM. DEM.: N/A	D SHIELD	100% BETA	100% BETA	T.I.D.				
SPECIFICATIONS: PROJECT SPEC. 95328R1 W.E. SPEC. DWG 8765D45, R 3	AGE- INST LIFE (PER 323- 1974 DEF.)	40 YEARS	5.99 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20 SRS TAB E Pg. 1B THRU 5B	COMB. TYPE TEST & SUPP. REVIEW		SAFETY FUNCTIONS SEE ESE-3A, TAB D
P.O. # 407118 CND # 1940	BURNEGED	228.3	N/A	FSAR SECTION 13.6	N/A	N/A		AUTH. REFERENCE M.J.H.
PLANT LOC.: CB 21	OTHER EQUIPMENT THIS CES APPLIES TO:							
COORDINATES X= 1544.0 Y= 1723.0 Z= 236.0	OPERABILITY	SUPPL. REVIEW						QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-3A
INSTALLED (Y/II): INSTAL. NEFT: BY FIELD	OPERABILITY	O ESE 3A						
QUALIF EXEMPT: N/A	TEMPERATURE	T						
QUALIF: REQUIRES ANALYSIS	PRESSURE	P						
STATUS	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
	AGING	A						
	BURNEGENCE	S						
PHYS DWG NEFT: CAR 2165 G451	FSAR ENV CAT:	A						REVISION # 10
PHYS DWG LVL: INSTRUMENT LIST	19588 CATEG.:	A						DATE: 6-21-84
MOUNTING	APPENDIX E							SYSTEM: FEEDWATER
EQ. DOC. LUC: W70. 407118								TAG: LT-1FW497

REFERENCES:

FLOW DIAG. CAR 2165 G 044

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M OUTS ITEMS	
	PARAMETER ACTUAL	DEM. QUALIF.	ACTUAL	DEM. QUALIF.			
TAG NO: FT-IMS474	OPERABILITY	40 YEARS	16 YRS. NORMAL	OPERABILITY TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE TEST & SUPP.	NONE	ACCEL TIME: 1673 HOURS
EQUIPMENT: SENSOR TYPE	NORM/TEST DBA	1 YEAR	6.5 MO. POST DBA	SRS TABLE PAGE 18 THRU 51	REVIEW		ACCEL TEMP: 125°C
COMPONENT: FLOW XMTR.	TEMPERATURE	120°F NORM	104°F NORM.	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1	TEST REPORT SECT. 5.1 PAGE 9 (10) SRS TABLE 19.10L 3B	COMB. TYPE TEST & SUPP. REVIEW	NORM. SERV. TEMP. SEE TAB K
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)	TEST REPORT SECT. 5.4 Pg. 14 SRS TABLE Pg. 3D	COMB. TYPE TEST & SUPP. REVIEW	H NONE
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM.	100% DBA	FSAR TABLE 19.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)	TEST REPORT SECT. 5.4 Pg. 14 SRS TABLE Pg. 3D	COMB. TYPE TEST & SUPP. REVIEW	H NONE
MODEL AND SERIAL: 764 1148	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM PH 8.5-11.0	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16 SRS TABLE Pg. 4D	COMB. TYPE TEST & SUPP. REVIEW	H NONE
FUNCTION: MAIN STEAM FLOW & SERVICE	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11.2-20	TEST REPORT SECT. 5.2 Pg. 10 (11) SRS TABLE Pg. 10, 22 (30)	COMB. TYPE TEST & SUPP. REVIEW	H NONE
ACCUM. SPEC: N/A	A BETA	3.3 E7	174.38 EG	CONT. RAD. ZONE C3	SRS TABLE Pg. 10, 22 (30)	COMB. TYPE TEST & SUPP. REVIEW	H NONE
ACCUM. DEM.: N/A	D SHIELD	100% BETA	100% BETA	T.I.D.			
SPECIFICATIONS: PROJECT SPEC. 95328, R1 WE. SPEC. DWG 8765D45, R3	AGE-INSTR LIFE (PER 323-1974 DEF.)	40 YEARS	5.99 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20 SRS TABLE Pg. 17 THRU 51	COMB. TYPE TEST & SUPP. REVIEW	NONE
P.O. # 407118 END # 1990	SUBMERGED	228.3	N/A	FSAR SECTION 13.6	N/A	N/A	NONE
PLANT LOC.: CD 21	YES						
COORDINATES X=1460.0 Y=1725.0 Z=236.0							
INSTALL (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-3A
INSTAL. REF: BY FIELD	OPERABILITY	O ESE 3A	REFERENCES: FLOW DIAG. CAR 2165 G 044				
QUALIF EXEMPT: N/A	TEMPERATURE	T					
QUALIF REQUIRES ANALYSIS	PRESSURE	P					
STATUS	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DWG REF: CAR 2165 G 451	AGING	A				REVISION # : 0	
PHYS DWG LUC: INSTRUMENT LIST MOUNTING	EMERGENCE	S				DATE: 6-21-84	
EQ. DOC. LUC: W/NO. 407118	FSAR ENV CAT:	A				SYSTEM: MAIN STEAM	
	10588 CATEG.:	A				TAG: FT-IMS474	
	APPENDIX E						

MAINTAIN. O-RINGS REPLACED 01 YR. CONNECTORS 30 YEARS SUBCOMPONENTS O-RINGS & CONNECTORS

SAFETY FUNCTION, SEE ESE-3A, TAB 'D'

AUTH. REFERENCE: M.J.H.

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/H	OUTS ITEMS		
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL	DEM.
TAG NO: FT-IMS 475	OPERABILITY	40 YEARS	16 YRS. NORMAL	OPERABILITY REVIEW	TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE TEST & SUPP.	NONE	ACCEL TIME: 1673 HOURS	
EQUIPMENT: SENSOR TYPE	NORM/TEST DBA	1 YEAR	6.5 MO.	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE TEST & SUPP. REVIEW		ACCEL TEMP: 125°C	
COMPONENT: FLOW XMTR.	TEMPERATURE	120°F NORM	104°F NORM.	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE TEST & SUPP. REVIEW	H	REPLACEMENT: 5.99 YEARS	
MANUFACTURER: BARTON	DBA	POST DBA	POST DBA	FSAR FIG. 3.11.4-1 FOR DBA	FSAR FIG. 3.11.4-1	FSAR TABLE 19.4.0-1		Maintain. O-RINGS REPLACED @ 1 YR. CONNECTORS @ 5 YEARS	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR FIG. 3.11.8-1 FOR DBA	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP. REVIEW	H	SUBCOMPONENTS: O-RINGS & CONNECTORS	
MODEL AND SERIAL: 764 1149	RELATIVE HUMIDITY	40% NORM.	100% DBA	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP. REVIEW	H		
FUNCTIONS: MAIN STEAM FLOW & SERVICE	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	COMB. TYPE TEST & SUPP. REVIEW	H		
ACCUM. SPEC: N/A	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11.20	TEST REPORT SECT. 5.2 Pg. 10 & 11	COMB. TYPE TEST & SUPP. REVIEW	H		
ACCUM. DEM.: N/A	A BETA	3.3 E7	174.38 E6	CONT. RAD. ZONE C3	SRS TABLE Pg. 16, 22 & 30				
SPECIFICATIONS: PROJECT SPEC. 9502281 WE. SPEC. DWG 0265D45, R 3	D SHIELD	100% BETA	100% BETA	T.I.D.	1.2 EG				
P.O. # 407118 CND # 1991	AGE-INSTR LIFE (PER 323-1974 DEF.)	40 YEARS	5.99 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20	COMB. TYPE TEST & SUPP. REVIEW		SAFETY FUNCTIONS, SEE ESE-2A, TAB 'D'	
PLANT LOC.: CD 21	SUBMERGENCE	228.3	N/A	FSAR SECTION 13.6	SRS TABLE Pg. 18 THRU 58				
COORDINATES X=1468.0 Y=1734.0 Z=236.0	YES				N/A	N/A		AUTH. REFERENCE: M.J.H.	
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION		
INSTAL. REF: BY FIELD	OPERABILITY	O ESE 2A	REFERENCES: FLOW DIAG. CAR 2165 G 044				REVISION # 10 DATE 6-21-84 SYSTEM: MAIN STEAM TAG: FT-IMS 475		
QUALIF EXEMPT: N/A	TEMPERATURE	T							
QUALIF: REQUIRES ANALYSIS	PRESSURE	P							
STATUS	REL. HUMIDITY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DWG REF: CAR 2165 G 451	AGING	A							
PHYS DWG LINC: INSTRUMENT LIST MOUNTING	SUBMERGENCE	S							
EQ. DOC. LUC: W70. 407118	FSAR ENV CAT: A								
	10588 CATEG: A								
	APPENDIX E								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				
TAG NO: FT-IMS 484	OPERABILITY	40 YEARS	16 YRS.	NORMAL	TEST REPORT SECT. 7.0	COMB. TYPE		ACCEL TIME: 1673 HOURS
EQUIPMENT: SENSOR TYPE	NORM/TEST	1 YEAR	6.5 MO.		PAGE 17 THRU 20	TEST & SUPP.	NONE	
COMPONENT: FLOW XMTR.	TEMPERATURE	120° F NORM	104° F NORM	FSAR TABLE	SRS TABLE PAGE 1B THRU 5B	REVIEW		ACCEL TEMP: 125°C
MANUFACTURER: BARTON		FSAR FIG. 3.11.4-1 FOR DBA	420° F DBA	19.4.0-1 FSAR FIG. 3.11.4-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE TEST & SUPR	H	REPLACEMENT: 5.99 YEARS
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.6 NORM	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP.	H	MAINTAIN: O-RINGS REPLACED @ 1 YR. CONNECTORS @ 5 YEARS
MODEL AND SERIAL: 764 1150	RELATIVE HUMIDITY	40% NORM	100% DBA	19.4.0-1 NORM	SRS TABLE Pg. 3D	REVIEW	NONE	SUBCOMPONENTS: O-RINGS & CONNECTORS
FUNCTION: MAIN STEAM FLOW & SERVICE	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	COMB. TYPE TEST & SUPP.	H	
ACCUM. SPEC: N/A	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11.2-20	TEST REPORT SECT. 5.2 Pg. 10 & 11	COMB. TYPE TEST & SUPP.	H	
ACCUM. DEM: N/A	A BETA	3.3 EG	174.38 EG	CONT. RAD. ZONE C3	SRS TABLE Pg. 1C, 2C & 3C	REVIEW	NONE	
SPECIFICATIONS: PROJECT SPEC. 9532281 WE. SPEC. DWG 8765D45, R3	D SHIELD	100% BETA	100% BETA					
P.O. # 407118 CND # 1990	AGE - INST LIFE (PER 323-1974 DEF.)	40 YEARS	5.99 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20	COMB. TYPE TEST & SUPP.	NONE	SAFETY FUNCTION: SEE ESE-3A, TAB B
PLANT LOC: CB 21	BURNEGED	228, 3	N/A	FSAR SECTION 13.6	SRS TABLE Pg. 1E	REVIEW	NONE	AUTH. REFERENCE: M.J.H.
COORDINATES X=1490.0 Y=1643.0 Z=236.0	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:					
INSTALLED (Y/11):	OPERABILITY	O ESE 3A	REFERENCES: FLOW DIAG. CAR 2165 9044					
INSTAL. NEFI BY FIELD	TEMPERATURE	T						
QUALIF EXEMPT: N/A	PRESSURE	P						
QUALIF REQUIRES ANALYSIS	REL. HUMIDTY	H						
STATUS	CHEM. SPRAY	C						
PHYS DWG NEFI CAR 2165 9451	RADIATION	R	REVISION # : 0 DATE : 6-21-84 SYSTEM : MAIN STEAM TAG : FT-IMS 484					
PHYS DWG LUCI INSTRUMENT LIST	AGING	A						
MOUNTING	RUHNERGENCE	S						
EQU. LOC: WTR. 407118	FSAR ENV CAT	A						
	10588 CATEG.	A						
	APPENDIX E							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/MI UITS	ACCEL TIME	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: FT-IMS 485	OPERABILITY	40 YEARS	16 YRS.	NORMAL	TEST REPORT SECT. 7.0	COMB. TYPE TEST & SUPP.	NONE	1673 HOURS
EQUIPMENT: SENSOR TYPE	NORM/TEST	1 YEAR	6.5 MO.		PAGE 17 THRU 20	REVIEW		
COMPONENT: FLOW XMTR.	DBA	POST DBA	POST DBA		SRS TABLE PAGE 18 THRU 58	REVIEW		ACCEL TEMP: 125 °C
MANUFACTURER: BARTON	TEMPERATURE	120 °F NORM	104 °F NORM.		FSAR TABLE SECT. 5.1	COMB. TYPE TEST & SUPP.	H	REPLACEMENT: 5.99 YEARS
MAJOR SUPPLIER: WESTINGHOUSE	FSAR FIG.	3.11.4-1 FOR DBA	420 °F DBA		PAGE 9 & 10	REVIEW		
MODEL AND SERIAL: 764 1151	PRESSURE	ATMOS. NORM.	ATMOS. NORM.		SRS TABLE P. 10 & 3B	REVIEW	K	MAINTAIN. O-RINGS REPLACED @ 1 YR. CONNECTORS @ 5 YEARS
FUNCTION: MAIN STEAM FLOW & SERVICE	FSAR FIG.	3.11.8-1 FOR DBA	80 PSIA DBA		FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 P. 14	H	SUBCOMPONENTS: O-RINGS & CONNECTORS
	RELATIVE HUMIDITY	40% NORM.	100% DBA		FSAR TABLE 3.11.6-1 (DBA)	TEST REPORT SECT. 5.4 P. 3D		
	CHEMICAL SPRAY	2000-2100 PPM BORON	2500 PPM BORON		FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 P. 10	H	NONE
ACCUM. SPEC: N/A	R GAMMA	1.2 EG	168.10 EG		SRS TABLE P. 4D	REVIEW		
ACCUM. DEM.: N/A	A BETA	3.3 E7	174.38 EG		FSAR FIG. 3.11.2-20	TEST REPORT SECT. 5.2 P. 10 & 11	H	NONE
SPECIFICATIONS: PROJECT SPEC. 95528 R1, WE. SPEC. DWG 8765D45, R 3	D SHIELD	100% BETA	100% BETA		CONT. RAD. ZONE C3	SRS TABLE P. 16, 20 & 3C		
P.O. # 1407118 CND # 1991	AGE - INST LIFE	40 YEARS	5.99 YEARS		110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 P. 20		SAFETY FUNCTION: SEE ESE-3A, TAB 'D'
PLANT LOC.: CB 21	(PER 323-1974 DEF.)					SRS TABLE P. 18 THRU 58		
COORDINATES X= Y= Z= 236.0	SURMERGED	228.3	N/A		FSAR SECTION 13.6	N/A		AUTH. REFERENCE: M.J.H.
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIED TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION	
INSTAL. NEP: BY FIELD	OPERABILITY	O ESE 3A					PACKAGE: ESE-3A	
QUALIF EXEMPT: N/A	TEMPERATURE	T						
QUALIF REQUIRES ANALYSIS	PRESSURE	P						
STATUS	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
	AGING	A						
PHYS DWG NEP: CAR 2165 G451	SURMERGENCE	S						
PHYS DWG LIC: INSTRUMENT LIST MOUNTING	FSAR ENV CAT:	A						
EQ. DOC. LUC: W/NO. 407118	10588 CATEG.:	A						
	APPENDIX E							

REFERENCES:

FLOW DIAG. CAR 2165 G044

REVISION # : 0
 DATE : 6-21-84
 SYSTEM : MAIN STEAM
 TAG : FT-IMS 485

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/WI UITS	ITEMS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
TAG NO: FT-IMS494	OPENABILITY	40 YEARS	16 YRS.	NORMAL	OPERABILITY TEST REPORT	COMB. TYPE	ACCEL TIME:
	ITY	NORMAL			SECT. 7.0	TEST & SUPP.	NONE
EQUIPMENT: SENSOR TYPE	NORM/TEST	1 YEAR	6.5 MO.		PAGE 17 THRU 20	REVIEW	1673 HOURS
COMPONENT: FLOW XMTR.	DBA	POST DBA	POST DBA		SRS TABLE		ACCEL TEMP:
	TEMPERATURE	120°F NORM.	104°F NORM.		PAGE 18 THRU 58		125°C
MANUFACTURER: BARTON	FSAR FIG.	3.11.4-1 FOR DBA	420°F DBA		FSAR TABLE	COMB. TYPE	REPLACEMENT:
	FSAR FIG.	3.11.4-1 FOR DBA	420°F DBA		19.4.0-1	TEST & SUPP.	5.99 YEARS
MAJOR SUPPLIER: WESTINGHOUSE	FSAR FIG.	3.11.8-1 FOR DBA	80 PSIA DBA		FSAR FIG.	REVIEW	MAINTENANCE:
	FSAR FIG.	3.11.8-1 FOR DBA	80 PSIA DBA		3.11.6 NORM.	TEST & SUPP.	0-RINGS REPLACED 0 YR.
MODEL AND SERIAL: 764 1152	RELATIVE HUMIDITY	40% NORM.	100% DBA		FSAR SECT. 3.11.6-1 (DBA)	REVIEW	CONNECTORS @ 5 YEARS
FUNCTION: MAIN STEAM FLOW & SERVICE	PHYSICAL CHEMICAL	2000-2100 PPM BORON	12500 PPM BORON		FSAR SECT. 3.11.5.1	TEST & SUPP.	SUBCOMPONENTS:
	PH	8.5-11.0	10.7		FSAR SECT. 3.11.4.3 (DBA)	REVIEW	0-RINGS & CONNECTORS
ACCUM. SPEC: N/A	R GAMMA	1.2 EG	168.10 EG		FSAR FIG. 3.11.3-20	TEST & SUPP.	
ACCUM. DEM.: N/A	A BETA	3.5 EG	174.38 EG		CONT. RAD. ZONE C3	REVIEW	
SPECIFICATIONS: W.E. SPEC. DWG 8763D45, R 3	D SHIELD	100% BETA	100% BETA		FSAR SECT. 3.11.5.1	TEST & SUPP.	
P.O. # 407118, CND # 1990	Y.I.D.	1.2 EG			FSAR SECT. 3.11.5.1	REVIEW	
PLANT LOC.: CB 21	AGE - INST LIFE	40 YEARS	5.99 YEARS		FSAR SECT. 3.11.5.1	TEST & SUPP.	SAFETY FUNCTION:
COORDINATES X=154.0, Y=1723.0, Z=236.0	(PER 323-1979 DEF.)				PARAGRAPH 50.51	REVIEW	SEE ESE-2A, TAB D
INSTALLED (Y/II):	SURMERGED	228.3			FSAR SECTION 13.6	N/A	AUTH. REFERENCE:
INSTALL. KEPI BY FIELD	YES		N/A		FSAR SECTION 13.6	N/A	M.J.H.
QUALIF. EXEMPT: N/A	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIED TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-2A
QUALIF. REQUIRES ANALYSIS	OPERABILITY	O ESE 2A	REFERENCES: FLOW DIAG. CAR 2165 G044				REVISION # 10 DATE 1-6-21-04 SYSTEM: MAIN STEAM TAG: FT-IMS494
STATUS	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDITY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS. DWG. KEPI CAR 2165 G451	AGING	A					
PHYS. DWG. LUCI INSTRUMENT LIST MOUNTING	SURMERGENCE	S					
EQ. DOC. LUCI W/NO. 407118	FSAR ENV. CAT. 10500 CATEG.	A					
	APPENDIX E						

EQUIPMENT DESCRIPTION	ENVIRONMENT PARAMETER ACTUAL	DEM. QUALIF.	DOCUMENTATION ACTUAL DEM. QUALIF.	QUALIF. METHOD	H/M/I UITS		
TAB NO: FT-IMS 495	OPERABILITY 1 YEAR NORM/TEST DBA	40 YEARS NORMAL 1 YEAR POST DBA	16 YRS. NORMAL 6.5 MO. POST DBA	OPERABILITY REVIEW TEST REPORT SECT. 7.0 PAGE 17 THRU 20 SRS TABLE PAGE 18 THRU 5B	COMB. TYPE TEST & SUPP. REVIEW	NONE	ACCEL TIME: 1675 HOURS
EQUIPMENT: SENSOR TYPE	TEMPERATURE FSAR FIG. 3.11.4-1 FOR DBA	120°F NORM 420°F DBA	104°F NORM 420°F DBA	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1	TEST REPORT SECT. 5.1 PAGE 9 & 10 SRS TABLE Pg. 1D, 3B	NORM. SERV. TEMP. SEE TAB H K	ACCEL TEMP: 125°C REPLACEMENT: 5.99 YEARS
COMPONENT: FLOW XMTR.	PRESSURE FSAR FIG. 3.11.8-1 FOR DBA	ATMOS. NORM 80 PSIA DBA	ATMOS. NORM 80 PSIA DBA	FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1 (DBA)	TEST REPORT SECT. 5.4 Pg. 14 SRS TABLE Pg. 3D	H NONE	MANTAIN: O-RINGS REPLACED @ 1 YR. CONNECTORS @ 5 YEARS
MAINTAINERS: BARTON	RELATIVE HUMIDITY	40% NORM. 100% DBA	100% DBA	FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	TEST REPORT SECT. 5.4 Pg. 14 SRS TABLE Pg. 3D	H NONE	SUBCOMPONENTS: O-RINGS & CONNECTORS
MAJOR SUPPLIER 1 WESTINGHOUSE	CHEMICAL SPRAY	12000-2100 PPM BOMPHOBORON IPH 8.5-11.0	12500 PPM IPH 10.7	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16 SRS TABLE Pg. 4D	H NONE	
MODEL AND SERIAL NO: 764 1153	R GAMMA A BETA D SHIELD T.I.D.	1.2 EG 13.3 EG 100% BETA 1.2 EG	168.10 EG 174.38 EG 100% BETA	FSAR FIG. 3.11.B-20 CONT. RAD. ZONE C3	TEST REPORT SECT. 5.2 Pg. 10 & 11 SRS TABLE Pg. 1C, 2C & 3C	H NONE	
FUNCTION: MAIN STEAM FLOW & SERVICE	AGE INST LIFE (PER 323- 1974 DEF.)	40 YEARS	5.99 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20 SRS TABLE Pg. 1B THRU 5B	NONE	SAFETY FUNCTION: SEE ESE-3A, TAB 'D'
ACCUM. SPEC: N/A	SUBMERGED	228.3 YES	N/A	FSAR SECTION 13.6	N/A SRS TABLE Pg. 1E	NONE	AUTH. REFERENCE: M.J.H.
ACCUM. DEM.: N/A PROJECT SPEC. 953528, R1 WE. SPEC. DWG 8765D45, R 3	OTHER EQUIPMENT THIS CED APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-3A			
SPECIFICATIONS:	REFERENCES: FLOW DIAG. CAR 2165 Q044			REVISION # 1.0 DATE 16-21-84 SYSTEM: MAIN STEAM TAG: FT-IMS 495			
P.O. NO: 407118 CND # 1991	PARA- METER	SUPPL. REVIEW					
PLANT LOC.: CB 21	OPERABILITY	O ESE 3A					
COORDINATES X=1544.0 Y=1713.0 Z=236.0	TEMPERATURE	T					
INSTALLED (Y/M):	PRESSURE	P					
INSTALL. METS BY FIELD	REL. HUMIDITY	H					
QUALIF. EXEMPT: N/A	CHEM. SPRAY	C					
QUALIF. REQUIRES ANALYSIS	RADIATION	R					
STATUS	ACTING	A					
	SUBMERGENCE	S					
	VAR ENV CAT:	A					
	10588 CATEG.:	A					
	APPENDIX E						

UTILITIES - CAROLINA POWER & LIGHT		COMPONENT EVALUATION SHEET		CAPACITY:	900 MW(E)	CESP-
EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: 2MS VI SAB-1	OPERABILITY	40 YEARS	OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT TYPE: VALVE	NORM/TEST DBA	NORMAL 1 YEAR POST DBA				ACCEL TEMP
COMPONENTS: SOLENOID V.	TEMPERATURE	111° F NORM 340° F DBA	FSAR TABLE FSAR FIG.		H	REPLACEMENT
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM 48 PSIA DBA			H	MAINTENANCE
MAJOR SUPPLIER: ROCKWELL	RELATIVE HUMIDITY	20-90% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		H	SUBCOMPONENTS
MODEL AND SERIAL #: 832185H	CHEMICAL SPRAY	N/A				
FUNCTIONS & SERVICE	R GAMMA	12.5 E4	FSAR FIG. 3.11B-23			
ACCUM. SPEC: N/A	A BETA	7.2 E4	CONT. RAD. ZONE R17		M	
ACCUM. DEM.: N/A	D SHIELD	100% BETA				
SPECIFICATIONS:	T.I.D.	2.6 E4				
P.O. # 15176 CND # 15H.10014 1002	AGE - INST LIFE	40 YEARS	10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION: MAIN STEAM ISOLATION VALVE
PLANT LOC.: A.B.	SUBMERGED	191.0	FSAR SECT. 3.6			
COORDINATES X= 1492.0 Y= 1605.0 Z= 279.0		YES				AUTH. REFERENCE
INSTALLED (Y/N): INSTAL. REFS: QUALIF EXEMPTN: QUALIFI: STATUS: PHYS DNG REFS: CAR 2165 G 067 (F.15) PHYS DNG LUCI: MOUNTING: EQ. DUC. LUCI:	PARAMETER: OPERABILITY TEMPERATURE PRESSURE REL. HUMIDITY CHEM. SPRAY RADIATION AGING SUBMERGENCE FSAR ENV CAT: 10588 CATEG. APPENDIX E	SUPPL. REVIEW: O T P H C R A S A	OTHER EQUIPMENT THIS CES APPLIES TO: REFERENCES: FLOW DIAG. 2165-G042 VENDOR. DWG. 1364-2092	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: REVISION #: DATE: SYSTEM: MAIN STEAM TAG: 2MS VI SAB-1		

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/MI UNITS	REMARKS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
TAG NO: 2MS VI SAB-1	OPERABILITY	40 YEARS			OPERABILITY REVIEW	/	ACCEL TIME
EQUIPMENT: VALVE	NORM/TEST	1 YEAR					ACCEL TEMP
COMPONENT: LIMIT SW.	TEMPERATURE	111 °F NORM 340 °F DBA			FSAR TABLE FSAR FIG.	/	REPLACEMENT
MANUFACTURER: NAMCO	PRESSURE	ATMOS. NORM. 48 PSIA DBA				/	MAINTAIN.
MAJOR SUPPLIER: ROCKWELL	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	/	SUBCOMPONENTS
MODEL AND SERIAL # EA740-20100	CHEMICAL SPRAY	N/A				/	
FUNCTIONS & SERVICE	R GAMMA	2.5 E4			FSAR SECT. 3.11B-24	/	
ACCUM. SPEC: N/A	A BETA	7.2 E4			CONT. RAD. ZONE R17	/	
ACCUM. DEM.: N/A	D SHIELD	100% BETA				/	
SPECIFICATIONS:	T.I.D.	2.6 E4				/	
P.O. # 5176 CND # SH.1001 1002	AGE - INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51	/	SAFETY FUNCTIONS: MAIN STEAM ISOLATION VALVE
PLANT LOC.: A.B.	(PER 323-1974 DEF.)					/	
COORDINATES X=1492.0 Y=1605.0 Z=279.0	SUBMERGED	191.0 YES			FSAR SECT. 3.6	/	AUTH. REFERENCES
INSTALLED (Y/M):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGES:	
INSTAL. REFS:	OPERABILITY	O	REFERENCES: FLOW DIAG. 2165-6042 VENDOR DWG. 1364-2092			REVISION # : DATE : SYSTEM : MAIN STEAM TAG : 2MS VI SAB-1	
QUALIF EXEMPTN:	TEMPERATURE	T					
QUALIF:	PRESSURE	P					
STATUS:	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DWG REFS: CAR 2165 G 067 (F-12)	AGING	A					
PHYS DWG LUCI:	SUBMERGENCE	S					
MOUNTING:	FSAR ENV CAT:	A					
EN. DUC. LUCI:	1958 CATEG.:						
	APPENDIX E						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/MI UNITS	ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: 2MS V2 SAB 1	OPERABILITY	40 YEARS	2	3	4	5	6	7
EQUIPMENT: VALVE	NDHM/TEST	1 YEAR						
COMPONENT: SOL. VALVE	TEMPERATURE	111° F NORM 340° F DBA			OPERABILITY REVIEW			
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM 48 PSI DBA			FSAR TABLE FSAR FIG.			
MAJOR SUPPLIER: ROCKWELL	RELATIVE HUMIDITY	20-90% NORM. 100% DBA						
MODEL AND SERIAL #: 832185E	CHEMICAL SPRAY	N/A			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			
FUNCTIONS & SERVICE	R GAMMA	2.5E4						
ACCUM. SPEC: N/A	A BETA	7.2E4			FSAR FIG. (3.11B-23)			
ACCUM. DEM.: N/A	D SHIELD	100% BETA			(CONT. RAD. ZONE R17)			
SPECIFICATIONS:	T.I.D.	2.6E4						
P.O. # 15176 END # 1003	AGE - INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51			
PLANT LOC.: A.73.	(PER 323-1974 DEF.)							
COORDINATES X=1502.0	SUBMERGED	191'0			FSAR SECT. 3.6			
Y=1605.0	YES							
Z=279.0								
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTAL. NEP:	OPERABILITY	O	REFERENCES: FLOW DIAG. 2165 G042 VENDOR DWG. 1364-2092					
QUALIF EXEMPTN:	TEMPERATURE	T						
QUALIF:	PRESSURE	P						
STATUS:	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
PHYS DNG NEP: CAR 2165 G067(F-1)	AGING	A	REVISION #				DATE	
PHYS DNG LUC:	SUBMERGENCE	S	SYSTEM: MAIN STEAM				TAG: 2MS V2 SAB 1	
MOUNTING:	FSAR ENV CAT:	A						
EU.DOC.LUC:	19588 CATEG.:							
	APPENDIX E							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
TAG NO: 2MS V2 SAB1	OPERABILITY	40 YEARS			OPERABILITY REVIEW	/	ACCEL TIME
EQUIPMENT VALVE TYPE	NORM/TEST	1 YEAR					ACCEL TEMP
COMPONENT: LIMIT SW.	DBA	POST DBA					REPLACEMENT
MANUFACTURER: NAMCO	TEMPERATURE	111° F NORM			FSAR TABLE	/	MAINTAIN.
MAJOR SUPPLIER: ROCKWELL	URE	340° F DBA			FSAR FIG.	H	SUBCOMPONENTS
MODEL AND SERIAL #: EA 740-20100	PRESSURE	1 ATMOS. NORM				/	
FUNCTIONS & SERVICE		48 PSIA DBA				H	
	RELATIVE HUMIDITY	20-90% NORM			FSAR TABLE	/	
		100% DBA			19.4.0-1 NORM	H	
					FSAR SECT. 3.11.4.3 (DBA)		
ACCUM. SPEC: N/A	CHEMICAL SPRAY	N/A				/	
ACCUM. DEM.: N/A	R GAMMA	2.5 E4			FSAR FIG. 3.11B-23	/	
SPECIFICATIONS:	A BETA	7.2 E4			CONT. RAD. ZONE R17	M	
P.O. # 15176 CND # SH.# 1003	D SHIELD	100% BETA					SAFETY FUNCTIONS: MAIN STEAM ISOLATION VALVE
PLANT LOC.: A.B.	Y.I.D.	2.6 E4					
COORDINATES X= 1502.0	AGE - INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51	/	
Y= 1605.0	(PER 323-1974 DEF.)						
Z= 279.0	SUBMERGED	191°			FSAR SECT. 3.6	/	
INSTALLED (Y/N):		YES					AUTH. REFERENCE
INSTALL. REF: QUALIF EXEMPTN:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
QUALIF:	OPERABILITY	O	REFERENCES: FLOW DIAG. 2165 G042 VENDOR.DWG				
QUALIF STATUS:	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDITY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS ONG REF: CAR 2165 G067 (F.H)	AGING	A	REVISION #				
PHYS ONG LUCI MOUNTING	SUBMERGENCE	S	DATE				
EN.DUC.LUCI	FSAR ENV CAT: 10500 CATEG. APPENDIX E	A	SYSTEM: MAIN STEAM				
			TAG: 2MS V2 SAB 1				

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M UITS	ITEMS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
TAG NO: 2MS V3 SAB-1	OPERABIL- ITY	40 YEARS			OPERABILITY REVIEW	/	ACCEL TIME
EQUIPMENT: VALVE TYPE	NORM/TEST DBA	NORMAL 1 YEAR POST DBA					ACCEL TEMP
COMPONENT: LIMIT SW.	TEMPERAT- URE	111° F NORM 340° F DBA			FSAR TABLE FSAR FIG.	/ H	REPLACEMENT
MANUFACTURER: NAMCO							MAINTAIN.
MAJOR SUPPLIER: ROCKWELL	PRESSURE	120-90% NORM 100% DBA				/ H	SUBCOMPONENTS
MODEL AND SERIAL #	RELATIVE HUMIDITY	100% DBA			FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	/ H	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A				/	
ACCUM. SPEC: N/A							
ACCUM. DEM.: N/A	R GAMMA A BETA D SHIELD T.I.D.	12.5E4 17.2E4 100% BETA 2.6E4			FSAR FIG. 13.11B-23 CONT. RAD. ZONE R17	/ M	
SPECIFICATIONS:	AGE- INST LIFE (PER 323- 1978 DEF.)	40 YEARS			10 CFR 50 PARAGRAPH 50.51	/	SAFETY FUNCTION: MAIN STEAM RELIEF VALVE
P.O # 15176 CND # 15H # 1005 41006							
PLANT LOC. I.A.B.	BURNEGED	191° YES			FSAR SECT. 3.6	/	AUTH. REFERENCE
COORDINATES X= 1512.0 Y= 1605.0 Z= 279.0							
INSTALLED (Y/N): INSTAL. NEP: QUALIF EXEMPTN:	PARA- METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGES:	
QUALIF:	OPERABILITY	O	REFERENCES: FLOW DIAG. 2165-G042 VENDOR DWG 1364-2092			REVISION # : DATE :	
STATUS:	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DNG REF: CAR 2165 G067 (F-15)	AGING	A					
PHYS DNG LUC:	BURNEGENCE	S					
MOUNTING:	FSAR ENV CAT:	A				SYSTEM: MAIN STEAM	
EV. DUC. LUC:	FSAR CATEG.:					TAG: 2MS V3 SAB-1	
	APPENDIX E						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M UITS	ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL DEM. QUALIF.			
TAG NO: ZMS V3 SAB-1	OPERABIL- ITY	40 YEARS NORMAL		OPERABILITY REVIEW		/	ACCEL TIME:
EQUIPMENT: VALVE TYPE	NORM/TEST DBA	1 YEAR POST DBA					ACCEL TEMP:
COMPONENT: SOLENOID V.	TEMPERAT- URE	111° F NORM 340° F DBA		FSAR TABLE FSAR FIG.		/ H	REPLACEMENT:
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. 48 PSIA DBA				/ H	MAINTAIN.:
MAJOR SUPPLIER: ROCKWELL	RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		/ H	SUBCOMPONENTS:
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A				/	
ACCUM. SPEC: N/A	R GAMMA A BETA D SHIELD T.I.D.	2.5E4 7.2E4 100% BETA 12.6E4		FSAR FIG. 3.11B-23 CONT. RAD. ZONE 717		/ M	
ACCUM. DEM.: N/A	AGE- INST LIFE (PER 323- 1974 DEF.)	40 YEARS		110 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION: MAIN STEAM ISOLATION VALVE
SPECIFICATIONS:	SUBMERGED	191° YES		FSAR SECT. 3.6		/	
P.O. # 15176 END # 15177 PLANT LOC. 1 COORDINATES X= 1512.0 Y= 1605.0 Z= 279.0							
INSTALLER (Y/H): INSTAL. REF: QUALIF EXEMPTN: QUALIF: STATUS: PHYS ENG REF: CAR 2165 G 067 (F-15) PHYS ENG LUCI: MOUNTING: EQ. DOC. LUCI:	PARA- METER OPERABILITY TEMPERATURE PRESSURE REL. HUMIDY CHEM. SPRAY RADIATION AGING SUBMERGENCE FSAR ENV CAT: 1958 CATEG. APPENDIX E	SUPPL. REVIEW O T P H C A S A A	OTHER EQUIPMENT THIS CES APPLIES TO: REFERENCES: FLOW DIAG. 2165-G042 VENDOR DWG. 1364-2092		QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: REVISION #: DATE: SYSTEM: MAIN STEAM TAG: ZMS V3 SAB-1		



EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION			QUALIF. METHOD	N/N/ OUIS	ITEMS
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL	DEH. QUALIF.				
NO: PT-IRC 402	OPERABIL- ITY	40 YEARS	10 YEARS NORMAL	OPERABILITY REVIEW	TEST REPORT SECT. 7.0 PAGE 18 & 19	COMB. TYPE TEST & SUPP. REVIEW	/		ACCEL TIME: 1673 HRS.
SENSOR	NOISE/TEST DBA	1 YEAR	6.525 MO. POST DBA		SRS TAB E PAGE 18 THRU 20			NONE	ACCEL TEMP: 125°C
PRESS. TRANSMITTER	TEMPERAT- URE	120°F NORM	120°F NORM	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE TEST & SUPP. REVIEW	H/	NORM. SERV. TEMP.	REPLACEMENT: 5.99 YRS.
BARTON	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 PAGE 14	COMB. TYPE TEST & SUPP. REVIEW	H/	NONE	MAINTAIN. O-RINGS REPLACED AT 1 YR. CONNECTORS AT 5 YRS. SUBCOMPONENTS
WESTINGHOUSE		FSAR FIG. 3.11.8-1 FOR DBA	175 PSIA DBA	3.11.6-1 (DBA)	SRS TAB E PAGE 3C				O-RINGS CONNECTORS
763	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 5.4 PAGE 14	COMB. TYPE TEST & SUPP. REVIEW	H/	NONE	
584		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	SRS TAB E PAGE 3C				
WIDE RANGE PRESS. REACTOR COOLANT SERVICE LCCFC	CHEMICAL SPRAY	2000-2100 PPM BORON	2000-2100 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	H/	NONE	
		PH 8.5-11.0	PH 8.5-11.0		SRS TAB E PAGE 6C				
N/A	R GAMMA	1.2 EG	5.0 E7	FSAR APP. 3.11.8-20	TEST REPORT SECT. 5.2 PAGE 11	COMB. TYPE TEST & SUPP. REVIEW	H/	NONE	
	A BETA	3.3 E7	90 E7	CONT. RAD. ZONE C3	SRS TAB E PAGE 1A THRU 3A				
	SHIELD	100% BETA							
	T.I.D.	1.2 EG	68 E7						
407118 CHD # 15H.1197	AGE- INST LIFE (PER 323- 1979 DEF.)	40 YEARS	5.99 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 PAGE 21	COMB. TYPE TEST & SUPP. REVIEW	/	NONE	SAFETY FUNCTION: SEE TAB "B", ESE-1A
C.B. 21	BURMEIGEN	228.3	N/A	FSAR SECTION 3.6	N/A	N/A	/	NONE	
X-1531.0 Y-1736.0 Z-236.0					SRS TAB E				AUTH. REFERENCE: M.J.H.

STALLED (Y/N) LATER
 STAL. REPT LATER
 LIF EXEMPT: NO
 ALIF: NOT QUALIF. REQUIRES
 THIS MAJOR ANALYSIS
 CAR-2166 G 4.51
 TOTAL EQUIP. LIST
 WY.P.O. 407118
 ISAH ENV CAT: A
 1958A CATEG. 1
 APPENDIX E CATEG. A

OTHER EQUIPMENT THIS CES APPLIES TO:
 N/A
 REFERENCES:
 FLOW DIAG. CAR-2165 G-800
 TEST REPORT, E01A, R 1
 EQUIP. QUAL. DATA PKG. ESE-1A, R 3

QUALIFICATION SIGN-OFF
 FOUND IN DOCUMENTATION
 PACKAGE: ESE-1A
 REVISION # 10
 DATE 12-29-84
 SYSTEM REACTOR COOLANT
 (RVLIS)
 TAG PT-IRC 402

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.	ACTUAL	DEM.	QUALIF.	
TAG NO: PT-IRC403 SB	OPERABILITY	40 YEARS			OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: SENSOR TYPE	NORM/TEST	1 YEAR						ACCEL TEMP
COMPONENT: PRESS. TRANSMITTER	DBA	POST DBA						REPLACEMENT
MANUFACTURER: VERITRAK	TEMPERATURE	120°F NORM 380°F FOR DBA			FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1		H	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA			FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1(DBA)		H	SUBCOMPONENTS
MODEL AND SERIAL: 762PH2 N1250023	RELATIVE HUMIDITY	40% NORM. 100% DBA			FSAR TABLE 19.4.0-1 NORM. FSAR SECT. 3.11.4.3(DBA)		H	
FUNCTION: RCS WIDE RANGE & SERVICE LOOP A PRESS.	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1		H	
ACCUR. SPEC: N/A	R GAMMA	1.2 EG			FSAR APP. 3.11B-25			
ACCUR. DEM.: N/A	A BETA	3.3 E7			CONT. RAD. ZONE C3		H	
SPECIFICATIONS:	D SHIELD	100% BETA						
P.O. # 435002 END #	T.I.D.	1.2 EG						
PLANT LOC.: CB	AGE				10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION
COORDINATES X=	INST LIFE	40 YEARS						
Y=	(PER 323-1974 DEF.)							
Z= 236.0	SUBMERGED	228.3			FSAR SECTION 13.6			AUTH. REFERENCE
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTAL. KEF:	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR. 2165 9 844					
QUALIF EXEMPTN:	TEMPERATURE	T						
QUALIF:	PRESSURE	P						
STATUS:	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
	AGING	A						
	SUBMERGENCE	S						
PHYS DNG KEF:	FSAR ENV CAT:						REVISION #:	
PHYS DNG LUC:	10580 CATEG.:						DATE:	
MOUNTING:	APPENDIX E:						SYSTEM: (RVLIS) REACTOR COOLANT	
EQ. DUC. LUC:							TAG: PT-IRC403 SB	

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL			
DB NO: 5-IRC 0410	OPERABILITY	40 YEARS	20 YEARS	OPERABILITY TEST REPORT	COMB. TYPE		ACCEL TIME: 264 HOURS
EQUIPMENT: SENSOR	ITY	NORMAL	NORMAL	REVIEW	TEST 4 SUPP. REVIEW	NONE	
TYPE	NORM/TEST DBA	1 YEAR	6.52 MO. POST DBA	SRS TABLE PAGE 18 THRU 19			ACCEL TEMP: 400°F
EQUIPMENT: TEMP. ELEMENT	TEMPERATURE	120°F NORM	122°F NORM.	FSAR TABLE 19.4.0-1	TEST REPORT COMB. TYPE	H	REPLACEMENT: 20 YEARS
MANUFACTURER: R/F	FSAR FIG. 3.11.4-1 FOR DBA		420°F DBA	FSAR FIG. 3.11.4-1	TEST 4 SUPP. REVIEW	NONE	MAINTAIN.:
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT COMB. TYPE	H	SUBCOMPONENTS:
MODEL AND SERIAL # 21205 213	FSAR FIG. 3.11.8-1 FOR DBA		81 PSIA DBA	3.11.6-1 (DBA)	SECT. 5.6 PAGE 12 & 13	NONE	
FUNCTIONS: REACTOR COOLANT SERVICE LOOP 1 COLD LEG TEMP.	RELATIVE HUMIDITY	40% NORM	100% NORM.	FSAR TABLE 19.4.0-1 NORM	TEST REPORT COMB. TYPE	H	
ECON. SPEC: N/A		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	TEST REPORT COMB. TYPE	NONE	
ECON. DEM.: N/A	CHEMICAL SPRAY	2000-2100 PPM BORON	12750 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT COMB. TYPE	H	
SPECIFICATIONS: 4325B, R/G	PH 8.5-11.0	PH 10.7	10 25°C		SECT. 5.6 PAGE 12 & 13	NONE	
IDENTIFICATION # 265762 CND # 15N#184	R GAMMA	1.1 EG	124.7E7 GAMMA	FSAR APP. 3.11.8-20	TEST REPORT COMB. TYPE	H	
INST LOC.: C.B. 21	A BETA	1.7 E7	191.3E7 BETA	CONT. RAD. ZONE C 1	SECT. 5.3	NONE	
COORDINATES X=1470.0 Y=1703.0 Z=255.0	D SHIELD	100% BETA	100% BETA		PAGE 9 & 10		
INSTALL (Y/H):	T.I.D.	1.15 EG	24.7E7		SRS TABLE PAGE 2B THRU 5B		
STATUS: BY FIELD	AGE			110 CFR 50 PARAGRAPH 50.51	TEST REPORT COMB. TYPE		SAFETY FUNCTIONS: SEE TABLES OF ESE-5
STATUS: QUALIFIED WITHOUT EXCEPTION	INST LIFE (PER 323-1979 DEF.)	40 YEARS	20 YEARS		SECT. 7.0 PAGE 16	NONE	
STATUS: CAR-2165 G163	SURMERGED	228.3		FSAR SECTION 13.6	SRS TABLE PAGE 1A		
STATUS: C-16		YES	N/A			NONE	AUTH. REFERENCE: M.J.H.

OTHER EQUIPMENT THIS CES APPLIES TO:

REFERENCES:
 FLOW DIAG. CAR 2165 G800

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-5

REVISION # : 0
 DATE : 16-18-84

SYSTEM : REACTOR COOLANT
 TAG : TE-IRC 0410

STATUS: BY FIELD
 N/A

STATUS: QUALIFIED WITHOUT EXCEPTION

STATUS: CAR-2165 G163

STATUS: C-16

DOC. LUCI: W.P.O. 265762

PARAMETER	SUPPL. REVIEW
OPERABILITY	O ESE-5
TEMPERATURE	T
PRESSURE	P
REL. HUMIDTY	H
CHEM. SPRAY	C
RADIATION	R
AGING	A
SURMERGENCE	S

FSAR ENV CAT: 19588 CATEG. A APPENDIX E



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION METHOD	N/H/OUTS ITEMS		
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL				DEM. QUALIF.
NO. 1 E-IRC 0411B	OPERABILITY	40 YEARS	23 YEARS	OPERABILITY REVIEW	TEST REPORT SECT. 7.0 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	NONE	ACCEL TIME: 264 HOURS
EQUIPMENT: SENSOR TYPE	NDHM/TEST	1 YEAR	6.25 MO.		SRS TABLE 7.1 F THRU 4F			ACCEL TEMP: 400 °F
COMPONENT: TEMP ELEMENT	TEMPERATURE	120 °F NORM	122 °F NORM.	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 10	COMB. TYPE TEST & SUPP. REVIEW	H NONE	REPLACEMENT: 23 YEARS
MANUFACTURER: RDF		FSAR FIG. 3.11.4-1 FOR DBA	420 °F DBA	FSAR FIG. 3.11.4-1	SRS TABLE P. 79 OF 96			MAINTAIN.
MANUFACTURER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.7 PAGE 14	COMB. TYPE TEST & SUPP. REVIEW	H NONE	SUBCOMPONENTS:
		FSAR FIG. 3.11.8-1 FOR DBA	81 PSI DBA	3.11.6-1 (DBA)	SRS TABLE P. 79 OF 96			
MODEL AND SERIAL # 21204 216	RELATIVE HUMIDITY	40% NORM	100% NORM.	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 5.7 PAGE 14	COMB. TYPE TEST & SUPP. REVIEW	H NONE	
		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	SRS TABLE P. 79 OF 96			
FUNCTION: REACTOR COOLANT SERVICE	CHEMICAL SPRAY	2000-2100 PPM BORON	12750 PPM BORON PH 10.7 @ 25 °C	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 5.7 PAGE 14	COMB. TYPE TEST & SUPP. REVIEW	H NONE	
		PH 8.5-11.0			SRS TABLE P. 89 OF 96			
ACCUM. SPEC: N/A	R GAMMA	1.1 EG	124.7 EG	FSAR APP. 3.11.3-20	TEST REPORT SECT. 5.3 PAGE 94 10	COMB. TYPE TEST & SUPP. REVIEW	H NONE	
	A BETA	1.7 E7	191.7 E3 BETA	CONT. RAD. ZONE C1	SRS TABLE P. 11 F THRU 4E			
ACCUM. DEM.: N/A	D SHIELD	100% BETA	100% BETA					
	T.I.D.	1.15 EG	24.7 ET					
MANUFACTURER: WESTINGHOUSE	AGE - INST LIFE (PER 325-1974 DEF.)	40 YEARS	23 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.0 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	NONE	SAFETY FUNCTIONS: SEE TAB B OF ESE-6
MODEL AND SERIAL # 21204 216					SRS TABLE P. 11 F THRU 4E			
LOCATION: C.B. 21	SUBMERGED	228.3	NA	FSAR SECTION 13.6	N/A	N/A	NONE	AUTH. REFERENCES: M.J.H.
COORDINATES X=1478.0 Y=1708.0 Z=236.0		YES			SRS TABLE PAGE 1A			

INSTALLATION (Y/H):
 INST. NEPT BY FIELD
 QUALIFIED-
 STATUS WITHOUT EXCEPTION
 CAR-2165 G163
 TOTAL EQUIP. LIST
 DOC. LUCI W/ RO. 265762

PARAMETER	SUPPL. REVIEW
OPERABILITY	O ESE-6
TEMPERATURE	T
PRESSURE	P
REL. HUMIDTY	H
CHEM. SPRAY	C
RADIATION	R
SUBMERGENCE	S
FSAR ENV. CAT.	A
1958 CATEG.	
APPENDIX E	

OTHER EQUIPMENT THIS CES APPLIES TO:
 REFERENCES:
 FLOW DIAG. CAR-2165 G802

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-6
 REVISION # 10
 DATE 16-18-84
 SYSTEM: REACTOR COOLANT
 TAG: E-IRC 0411B



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	II/MI UTS	REPLACEMENT	MAINTAIN.	SUBCOMPONENTS
	PARAMETER	ACTUAL	DEM.	QUALIF.	ACTUAL	DEM. QUALIF.			
EQ NO 1 25-1RC 0411C EQUIPMENT: SENSOR TYPE	OPERABIL- ITY NDHH/TEST DBA	40 YEARS NORMAL 1 YEAR POST DBA	23 YEARS NORMAL 6.52 MO. POST DBA	OPERABILITY REVIEW	TEST REPORT SECT. 7.0 PAGE 17 SRS TABLE P. 1F THRU 4F	COMB. TYPE TEST & SUPP. REVIEW		NONE	ACCEL TIME: 264 HOURS ACCEL TEMP: 400°F
COMPONENT: TEMP. ELEMENT	TEMPERAT- URE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA	122°F NORM. 1420°F DBA	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1	TEST REPORT SECT. 5.1 PAGE 10 SRS TABLE P. 7G OF 9G	COMB. TYPE TEST & SUPP. REVIEW	H	NONE	REPLACEMENT: 23 YEARS
AIRP ALTUNER: R/F	PRESSURE	ATMOS. NORM. FSAR FIG. 3.11.6-1 FOR DBA	ATMOS. NORM. 81 PSIA DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1(DBA)	TEST REPORT SECT. 5.7 PAGE 14 SRS TABLE P. 7G OF 9G	COMB. TYPE TEST & SUPP. REVIEW	H	NONE	
AJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM 100% DBA	100% NORM. 100% DBA	FSAR TABLE 19.4.0-1 NORM. FSAR SECT. 3.11.4.3(DBA)	TEST REPORT SECT. 5.7 PAGE 14 SRS TABLE P. 7G OF 9G	COMB. TYPE TEST & SUPP. REVIEW	H	NONE	
MODEL AND: 2120F SERIAL #: 217 REACTOR COOLANT, SERVICE DIFF. TEMP. TEMP. AVG. CONTROL-COLD LEG	CHEMICAL SPRAY	2000-2100 PRIM BORON PH 8.5-11.0	2750 PPM BORON PH 10.7 25°C.	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 5.7 PAGE 14 SRS TABLE P. 8G OF 9G	COMB. TYPE TEST & SUPP. REVIEW	H	NONE	
ACCUM. SPEC: N/A	R GAMMA A BETA D SHIELD T.I.D.	1.1EG 1.7E7 100% BETA 1.15EG	24.7EG/HPA 91.3E7 BETA 100% BETA 24.7E7	FSAR APP 3.11.B-20 CONT. RAD. ZONE C1	TEST REPORT SECT. 5.3 PAGE 9 (10) SRS TABLE P. 1F THRU 4F	COMB. TYPE TEST & SUPP. REVIEW	H	NONE	
SPECIFICATIONS: N/A 53377R0 5WG-43257R7 265762CHD #1	AGE- INST LIFE (PER 323- 1974 DEF.)	40 YEARS	23 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.0 PAGE 17 SRS TABLE P. 1E THRU 6E	COMB. TYPE TEST & SUPP. REVIEW		NONE	SAFETY FUNCTIONS: SEE TAB B OF ESE-6
INST LOC: C.3..21	SUBMERGED:	228.3 YES	N/A	FSAR SECTION 3.6	N/A SRS TABLE PAGE 1A	N/A		NONE	AUTH. REFERENCE: M.J.H.
COORDINATES X = 1472.0 Y = 1702.0 Z = 236.0	PARA- METER OPERABILITY TEMPERATURE PRESSURE REL. HUMIDTY CHEM. SPRAY RADIATION AGING SUBMERGENCE	SUPPL. REVIEW O T P H C R. A S	OTHER EQUIPMENT THIS CES APPLIES TO:	REFERENCES: FLOW DIAG. CAR-2165 G 802	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-6	REVISION #: 10 DATE: 16-18-84 SYSTEM: REACTOR COOLANT TAG: 175-1RC 0411C			
INSTALLED (Y/II): INSTAL. NEP: BY FIELD DEF. EXEMPT: N/A QUALIF: QUALIFIED STATUS: WITHOUT EXCEPTION 195 DNG NEP CAR-2165 G163 195 DNG LIC TOTAL EQUIP LIST DOUG. LUC: w/P. 265762 APPENDIX E									

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	UITS ITEMS
PARAMETER ACTUAL		DEM. QUALIF.	ACTUAL	DEM. QUALIF.	METHOD		
ID NO: TE-IRC 0412A		OPERABILITY	40 YEARS	23 YEARS	TEST REPORT	COMB. TYPE	ACCEL TIME: 264 HOURS
EQUIPMENT: SENSOR VPE		NORM/TEST	NORMAL	NORMAL	SECT. 7.0 PAGE 17	TEST & SUPP. REVIEW	NONE
COMPONENT: TEMP. ELEMENT		DBA	1 YEAR	6.52 MO. POST DBA	SRS TABLE P. 15 THRU 4F		ACCEL TEMP: 400°F
MANUFACTURER: R/F		TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT	REPLACEMENT: 23 YEARS
MAJOR SUPPLIER: WESTINGHOUSE		URE	FSAR FIG. 13.11.4.1 FOR DBA	19.4.0-1 FSAR FIG. 13.11.4-1	SECT. 5.1 PAGE 10	TEST & SUPP. REVIEW	H NONE
MODEL AND SERIAL # 2120 & 218		PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT	MAINTAIN.
FUNCTION: REACTOR COOLANT SERVICE			FSAR FIG. 13.11.8-1 FOR DBA	81 PSIA DBA	3.11.6-1 (DBA)	SECT. 5.7 PAGE 14	H NONE
DIFF. TEMP. TEMP. AVG. PROTECTION		RELATIVE HUMIDITY	40% NORM	100% NORM.	FSAR TABLE	TEST REPORT	SUBCOMPONENTS:
SPEC. USE: REACTOR COOLANT SERVICE			100% DBA	100% DBA	SECT. 5.7 PAGE 14	COMB. TYPE TEST & SUPP. REVIEW	H NONE
ACCUM. SPEC: N/A		CHEMICAL SPRAY	2000-2100 PPM PH 8.5-11.0	2750 PPM BORON PH 10.7 @ 225°C	FSAR SECT. 3.11.5.1	TEST REPORT	H NONE
ACCUM. DEM.: N/A		R GAMMA	1.1 EG	24.7 EG	FSAR APP. 3.11.8-20	TEST REPORT	H NONE
SPECIFICATIONS: ME. SPEC 953377A		A BETA	1.7 E7	91.3 E7	CONT. RAD. ZONE C1	SECT. 5.3 PAGE 9 & 10	H NONE
P.O. # 265762 CND # 154.0191		D SHIELD	100% BETA	100% BETA		TEST REPORT	H NONE
PLANT LOC.: C-3.21		T.I.D.	1.15 EG	124.7 E7		SECT. 7.0 PAGE 17	NONE
COORDINATES X=1477.0 Y=1708.0 Z=236.0		INST LIFE (PER 523-1978 DEF.)	40 YEARS	23 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT	NONE
BURNEGED			228.3	N/A	FSAR SECTION 13.6	COMB. TYPE TEST & SUPP. REVIEW	NONE
INSTALLED (Y/N):			YES	N/A		SRS TABLE PAGE 1A	NONE
INSTALL. REF: BY FIELD							
QUALIF EXEMPT: N/A							
QUALIFI QUALIFIED -							
STATUS WITHOUT EXCEPTION							
MYS DNG REF: CAR-2165 G163							
MYS DNG LUCI: TOTAL EQUIP. LIST							
COUNTING							
D.DUC.LUCI: P.O. 265762							
OTHER EQUIPMENT THIS CES APPLIES TO:							
REFERENCES:							
FLOW DIAG. CAR-2165 G802							
QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-G							
REVISION # 10							
DATE 16-18-84							
SYSTEM: REACTOR COOLANT							
TAG: TE-IRC 0412A							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL			
EQUIPMENT NO: TE-IRC 0412B	OPERABILITY	40 YEARS	23 YEARS	OPERABILITY	TEST REPORT		ACCEL TIME: 264 HOURS
EQUIPMENT: SENSOR	DBA	NORMAL	NORMAL	REVIEW	SECT. 7.0 PAGE 17	NONE	
	NORM/TEST	1 YEAR	16.52 MO.		SRS TABLE PIF THRU 4F		ACCEL TEMP: 400°F
EQUIPMENT: TEMP. ELEMENT	TEMPERATURE	120°F NORM	122°F NORM.	FSAR TABLE	TEST REPORT	H	REPLACEMENT: 23 YEARS
EQUIPMENT MANUFACTURER: RdF		FSAR FIG. 3.11.4-1 FOR DBA	420°F DBA	9.4.0-1 FSAR FIG. 3.11.4-1	SECT. 5.1 PAGE 10 SRS TABLE P. 7G OF 9G	NONE	
	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.7 PAGE 14	H	MAINTAIN.
EQUIPMENT SUPPLIER: WESTINGHOUSE		FSAR FIG. 3.11.8-1 FOR DBA	81 PSIA DBA	3.11.6-1 (DBA)	SRS TABLE P. 7G OF 9G	NONE	SUBCOMPONENTS:
EQUIPMENT MODEL AND SERIAL #: 2180 & 219	RELATIVE HUMIDITY	40% NORM	100% NORM.	FSAR TABLE 9.4.0-1 NORM.	TEST REPORT SECT. 5.7 PAGE 14	H	
EQUIPMENT FUNCTION: REACTOR COOLANT SERVICE		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	SRS TABLE P. 7G OF 9G	NONE	
	CHEMICAL SPRAY	2000-2100 PPM BORON	12750 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 5.7 PAGE 14	H	
EQUIPMENT SPEC: N/A		PH 8.5-11.0	PH 10.7 @ 25°C		SRS TABLE P. 8G OF 9G	NONE	
EQUIPMENT DEM: N/A	R GAMMA	1.1 EG	124.7 ET	FSAR APP 3.11.8-20	TEST REPORT SECT. 5.3	H	
	A BETA	1.7 ET	191.5 ET	CONT. RAD. ZONE C1	PAGE 9 & 10	NONE	
	D SHIELD	100% BETA	100% BETA		SRS TABLE PIE THRU 4E		
	T.I.D.	1.15 EG	24.7 ET				
EQUIPMENT IDENTIFICATION: ME. SPEC. 95532701 DWG. 43257, R7	AGE- INST LIFE (PER 523-1979 DEF.)	40 YEARS	23 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.0 PAGE 17	NONE	SAFETY FUNCTIONS SEE TAB B OF ESE-6
EQUIPMENT INST LOC.: C.B. 21					SRS TABLE PIE THRU 6E		
EQUIPMENT COORDINATES: X=1476.0, Y=1708.0, Z=236.0	SUBMERGED	228.3	N/A	FSAR SECTION 3.6	N/A SRS TABLE PAGE 1A	NONE	AUTH. REFERENCE: M. J. H.
EQUIPMENT INSTALLED (Y/N): BY FIELD	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-6
EQUIPMENT LIFE EXEMPT: N/A	OPERABILITY	O ESE-6	REFERENCES: FLOW DIAG. CAR-2165 9802				REVISION # : 0 DATE : 16-18-84 SYSTEM : REACTOR COOLANT TAG : TE-IRC 0412B
EQUIPMENT QUALIF: QUALIFIED	TEMPERATURE	T					
EQUIPMENT STATUS: WITHOUT EXCEPTION	PRESSURE	P					
	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
	TAGGING	A					
	SUBMERGENCE	S					
	FSAR ENV CAT:	A					
	OSBB CATEG.:	A					
	APPENDIX E						

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		H/WI OUTS	
PARAMETER	ACTUAL	DEM.	QUALIF.	ACTUAL	DEM.	QUALIF.	METHOD	ITEMS	
<p> TE-IRC 0412C SENSOR TEMP. ELEMENT WESTINGHOUSE 21204 220 REACTOR COOLANT, DIFF. TEMP.-TEMP. AVG. CONTROL-COLD LEG N/A N/A 95337 43257, 27 26572 CND # 1191 31 X=1470.0 Y=1704.0 Z=257.0 BY FIELD N/A QUALIFIED WITHOUT EXCEPTION 2165 G163 TOTAL EQPT. LIST P.O. 26572 APPENDIX E </p>									
OPENABILITY	40 YEARS	23 YEARS	10PERABILITY	TEST REPORT	COMB. TYPE				ACCEL TIME
ITY	NORMAL	NORMAL	IREVIEW	SECT. 7.0	TEST &			NONE	264 HOURS
INDHM/TEST	1 YEAR	16.52 MO.		PAGE 17	SUPP.				
DBA	POST DBA	POST DBA		SRS TAB E	REVIEW				ACCEL TEMP
				P. 17 THRU 4E					400°F
TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT	COMB. TYPE				REPLACEMENT
	FSAR FIG.		19.4.0-1	SECT. 5.1	TEST &	H	NONE		23 YEARS
	3.11.4-1 FOR	420°F DBA	FSAR FIG.	PAGE 10	SUPP.				
	DBA		3.11.4-1	SRS TAB E	REVIEW				
				P. 76 OF 96					MAINTAIN.
PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT.	TEST REPORT	COMB. TYPE				SUBCOMPONENTS
	FSAR FIG.		3.11.6 NORM.	SECT. 5.7	TEST &	H	NONE		
	3.11.8-1 FOR	81PSIA DBA	FIG.	PAGE 14	SUPP.				
	DBA		3.11.6-1 (DBA)	SRS TAB E	REVIEW				
				P. 76 OF 96					
RELATIVE HUMIDITY	40% NORM.	100% NORM.	FSAR TABLE	TEST REPORT	COMB. TYPE				
	100% DBA	100% DBA	19.4.0-1 NORM.	SECT. 5.7	TEST &	H	NONE		
			FSAR SECT.	PAGE 14	SUPP.				
			3.11.4.3 (DBA)	SRS TAB E	REVIEW				
				P. 76 OF 96					
CHEMICAL SPRAY	2000-2100	2750 PPM.	FSAR SECT.	TEST REPORT	COMB. TYPE				
	PRM BORON	BORON	3.11.5.1	SECT 5.7	TEST &	H	NONE		
	PH 8.5-11.0	PH 10.7		PAGE 14	SUPP.				
		025°C		SRS TAB E	REVIEW				
				P. 86 OF 96					
R GAMMA	1.2 EG	124.7E7 GAMMA	FSAR APP.	TEST REPORT	COMB. TYPE				
A BETA	3.4 E7	41.7E7 BETA	3.11B-21	SECT. 5.3	TEST &	H	NONE		
D SHIELD	100% BETA	100% BETA	CONT. RAD.	PAGE 9 & 10	SUPP.				
			ZONE CS	SRS TAB E	REVIEW				
				P. 16 THRU 4E					
Y.I.D.	14.7 EG	124.7 E7							
AGC			110 CFR 50	TEST REPORT	COMB. TYPE				SAFETY FUNCTION
INST LIFE	40 YEARS	23 YEARS	PARAGRAPH	SECT. 7.0	TEST &		NONE		SECTION B OF ESE-G
(PER 523-			50.51	PAGE 17	SUPP.				
1979 DEF.)				SRS TAB E	REVIEW				
				P. 17 THRU 6 E					
SUBMERGED	228.3		FSAR						
	YES	N/A	SECTION	N/A			NONE		AUTH. REFERENCE
			13.6	SRS TAB E	N/A				M. J. H.
				PAGE 1A					
<p> OTHER EQUIPMENT THIS CES APPLIES TO: REFERENCES: FLOW DIAG. 2165 G802 </p>									
<p> QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-G REVISION # : 0 DATE 16-18-84 SYSTEM: REACTOR COOLANT TAG: TE-IRC 0412C </p>									

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
ID NO: E-IRC 0413 EQUIPMENT: SENSOR TYPE:	OPERABILITY	40 YEARS	20 YEARS	OPERABILITY	TEST REPORT	COMB. TYPE	ACCEL TIME:	
	ITY	NORMAL	NORMAL	REVIEW	SECT. 7.0	TEST & SUPP. REVIEW	264 HOURS	
	NORM/TEST	1 YEAR	6.52 MO.		PAGE 16			
	DBA	POST DBA	POST DBA		SRS TAB E		ACCEL TEMP:	
					PAGE 18 THRU 7E		400°F	
EQUIPMENT: TEMP ELEMENT	TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT	COMB. TYPE	REPLACEMENT:	
	URE	FSAR FIG. 3.11.4-1 FOR DBA	420°F DBA	FSAR FIG. 3.11.4-1	SECT. 5.1	TEST & SUPP. REVIEW	20 YEARS	
					PAGE 9			
					SRS TAB E			
					PAGE 15 & 2B			
EQUIPMENT: R d F	PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.6 NORM	TEST REPORT	COMB. TYPE	MAINTAIN.	
		FSAR FIG. 3.11.8-1 FOR DBA	81 PSI DBA	FSAR FIG. 3.11.6-1 (DBA)	SECT. 5.6	TEST & SUPP. REVIEW	SUBCOMPONENTS:	
					PAGE 12 & 13			
					SRS TAB E			
					P. 6 C OF 11 C			
EQUIPMENT: WESTINGHOUSE SUPPLIER	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE	TEST REPORT	COMB. TYPE		
		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	SECT. 5.6	TEST & SUPP. REVIEW		
					PAGE 12 & 13			
					SRS TAB E			
					P. 7 C OF 11 C			
EQUIPMENT: REACTOR COOLANT SERVICE LOOP / HOT LEG TEMP.	CHEMICAL SPRAY	2000-2100 PPM BORON	12750 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT	COMB. TYPE		
		PH 8.5-11.0	PH 10.7		SECT. 5.6	TEST & SUPP. REVIEW		
					PAGE 12 & 13			
					SRS TAB E			
					PAGE 90			
EQUIPMENT: SPEC N/A	R GAMMA	1.2 EG	124.7 GAMMA	FSAR APP. 3.11.8-21	TEST REPORT	COMB. TYPE		
	A BETA	3.4 E7	191.3 E7 BETA	CONT. RAD. ZONE C5	SECT. 5.3	TEST & SUPP. REVIEW		
	D SHIELD	100% BETA	100% BETA		PAGE 9 & 10			
	T.I.D.	4.7 EG	24.7 E7		SRS TAB E			
					P. 2 B THRU 5 B			
EQUIPMENT: SPEC N/A	AGE - INST LIFE	40 YEARS	20 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT	COMB. TYPE	SAFETY FUNCTION:	
	(PER 325-1974 DEF.)				SECT. 7.0	TEST & SUPP. REVIEW	SEE TAB B OF ESE-5	
					PAGE 16			
					SRS TAB E			
					P. 1 B THRU 7 B			
EQUIPMENT: C.B. 31	BURNED	228.3	N/A	FSAR SECTION 3.6	N/A	N/A	AUTH. REFERENCE:	
	YES				SRS TAB E		M. J. H.	
					PAGE 1A			
EQUIPMENT: BY FIELD	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF	
	OPERABILITY	0 ESE-5					FOUND IN DOCUMENTATION	
	TEMPERATURE	T					PACKAGE: ESE-5	
	PRESSURE	P						
	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
	AGING	A						
	BURNED	S						
EQUIPMENT: CAR-2165 G163	FSAR ENV CAT: 10588 CATEG. A		REFERENCES:				REVISION #: 0	
	APPENDIX E		FLOW DIAG. CAR-2165 G800				DATE: 6-18-84	
EQUIPMENT: P.D. 265762							SYSTEM: REACTOR COOLANT	
							TAG: TE-IRC 0413	

A/E: EBAS... CES INC.
 UTILITY: CAR... POWER & LIGHT

FACILITY: SHEARON MARK
 COMPONENT EVALUATION SH

13391 WESTINGHOUSE - PMH
 CAPACITY: 900 MW(E)

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: FT-IRC-414	OPERABILITY	40 YEARS	2	3	OPERABILITY REVIEW	4	5	ACCEL TIME
EQUIPMENT: SENSOR TYPE	NORM/TEST	NORMAL						ACCEL TEMP
COMPONENT: FLOW TRANSMITTER	DBA	1 YEAR						REPLACEMENT
MANUFACTURER: BARTON	TEMPERATURE	POST DBA			FSAR TABLE 9.4.0-1			MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE					FSAR FIG. 3.11.4-1			SUBCOMPONENTS
MODEL AND SERIAL: 752 4774	PRESSURE	FOR DBA			FSAR SECT. 3.11.6 NORM. FIG.			
FUNCTIONS: REACTOR COOLANT & SERVICE		ATMOS. NORM. SEE FSAR FIG. 3.11.6-1			FOR DBA 3.11.6-1(DBA)			
ACCUR. SPEC: N/A	RELATIVE HUMIDITY	40% NORM			FSAR TABLE 9.4.0-1 NORM			
ACCUR. DEM.: N/A		100% DBA			FSAR SECT. 3.11.4.3(DBA)			
SPECIFICATIONS: N. PROJ. SPEC. 953328, R3 955270, RO	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1			
P.O #: 414524 CHD # 1 SH # 0195	R GAMMA	1.2 EG			FSAR APP. 3.11.3-18			
PLANT LOC.: C.B.	A BETA	3.3 EG			CONT. RAD. ZONE C3			
COORDINATES X=1454.0 Y=1709.0 Z=230.0	D SHIELD							
INSTALLED (Y/N):	T.I.D.							
INSTALL. REF:	AGE				10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION
QUALIF EXEMPTN:	INST LIFE	40 YEARS						
QUALIF:	(PER 323-1974 DEF.)							
STATUS:	SURMERGED	228.3			FSAR SECTION			
PHYS DNG REF: CAR-2166 G 451								
PHYS DNG LOC: TOTAL EQUIP. LIST								
HOUNTING								
EQ. DUC. LUC:								
	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE	
	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G 800				REVISION # : DATE : SYSTEM : REACTOR COOLANT TAG : FT-IRC 0414	
	TEMPERATURE	T						
	PRESSURE	P						
	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
	AGING	A						
	SURMERGENCE	S						
	FSAR ENV CAT:							
	10588 CATEG.:							
	APPENDIX E							

A/E: EBASIS SERVICES INC.
 UTILITY: CAROLINA POWER & LIGHT

FACILITY: SHEARON HARRIS
 COMPONENT EVALUATION SHEET

NSSS: WESTINGHOUSE - PWR
 CAPACITY: 900 MW(E)

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
TAG NO: FT IRC 415	OPERABILITY	40 YEARS		OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT TYPE: SENSOR	NORM/TEST DBA	1 YEAR					ACCEL TEMP
COMPONENT: FLOW TRANSMITTER	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		/	REPLACEMENT
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA		FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)		/	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		/	SUBCOMPONENTS
FUNCTIONS: REACTOR COOLANT & SERVICE	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1		/	
ACCUR. SPEC: N/A	R GAMMA	1.2 E6		FSAR APP. 3.11.8-18		/	
ACCUR. DEM.: N/A	A BETA	3.3 E7		CONT. RAD. ZONE C3		/	
SPECIFICATIONS: W. PROJ. SPEC. 953328, R3 955270, R, 0	D SHIELD	T.I.D.				/	
P.O. #: 414524 CND # 15K#0195	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION
PLANT LOC.: C.B.	SURMERGED	228.3		FSAR SECTION		/	
COORDINATES X=1456.0 Y=1717.0 Z=236.0						/	AUTH. REFERENCE

QUALIF EXEMPTN:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
*****	OPERABILITY	O		
*****	TEMPERATURE	T		
*****	PRESSURE	P		
*****	REL. HUMIDTY	H		
*****	CHEM. SPRAY	C		
*****	RADIATION	R		
*****	AGING	A		
*****	SURMERGENCE	S		
PHYS DNG REF: CAR-2166 G451	FSAR ENV CAT:		REFERENCES:	REVISION #:
PHYS DNG LUC: TOTAL EQUIP. LIST	10588 CATEG.:		FLOW. DIAG. CAR-2165 G 800	DATE:
MOUNTING:	APPENDIX E:			SYSTEM: REACTOR COOLANT
EQ. DOC. LUC:				TAG: FT IRC 0415

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	H/M	OUTS	ITEMS
	PARAMETER	ACTUAL					
TAG NO: FT IRC 0416	OPERABIL- ITY	40 YEARS NORMAL	OPERABILITY REVIEW				ACCEL TIME
EQUIPMENT: SENSOR TYPE	NORM/TEST DBA	1 YEAR POST DBA					ACCEL TEMP
COMPONENT: FLOW TRANSMITTER	TEMPERAT- URE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1				REPLACEMENT
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)				MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)				SUBCOMPONENTS
MODEL AND: SERIAL #	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1				
FUNCT. USE: REACTOR COOLANT & SERVICE	R GAMMA A BETA D SHIELD T.I.D.	1.2 EG 3.3 E7	FSAR APP. 3.11.8-18 CONT. RAD. ZONE C3				
ACCUR. SPEC: N/A	AGE- INST LIFE	40 YEARS (PER 323- 1974 DEF.)	10 CFR 50 PARAGRAPH 50.51				SAFETY FUNCTION
ACCUR. DEM.: N/A	SUBMERGED	228.3	FSAR SECTION				AUTH. REFERENCE
SPECIFICATIONS: P.O. # PLANT LOC.: COORDINATES X- Y- Z-	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
INSTALLED (Y/H): INSTAL. NEFI QUALIF EXEMPTN:	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G 800				REVISION # DATE
*****	TEMPERATURE	T					
QUALIF:	PRESSURE	P	SYSTEM: REACTOR COOLANT				TAG: FT IRC 0416
STATUS	REL. HUMIDTY	H					
*****	CHEM. SPRAY	C	APPENDIX E				
*****	RADIATION	R					
PHYS DNG NEFI: CAR-2166 G 451	AGING	A	SYSTEM: REACTOR COOLANT				TAG: FT IRC 0416
PHYS DNG LOC: TOTAL EQUIP. LIST	SUBMERGENCE	S					
MOUNTING	FSAR ENV CAT:		APPENDIX E				
EQ. DOC. LOC:	10580 CATEG.:						

W. PROJ. SPEC.
 953328, R3
 955270, R0
 414524-CHD # 15K-0196
 C.B.
 X-1460.0
 Y-1725.0
 Z-236.0

PARA-METER SUPPL. REVIEW
 OPERABILITY O
 TEMPERATURE T
 PRESSURE P
 REL. HUMIDTY H
 CHEM. SPRAY C
 RADIATION R
 AGING A
 SUBMERGENCE S
 FSAR ENV CAT:
 10580 CATEG.:

OTHER EQUIPMENT THIS CES APPLIES TO:

 REFERENCES:
 FLOW DIAG. CAR-2165 G 800

QUALIFICATION SIGN-OFF
 FOUND IN DOCUMENTATION
 PACKAGE

 REVISION #
 DATE
 SYSTEM: REACTOR COOLANT
 TAG: FT IRC 0416

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/HI UNITS	ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
ID NO: E-IRC 0420 EQUIPMENT: SENSOR COMPONENT: TEMP. ELEMENT MANUFACTURER: XRF SUPPLIER: WESTINGHOUSE MODEL AND SERIAL: R1205 215 SERVICE: REACTOR COOLANT SERVICE 100% 2 COLD LEG CUR. SPEC: N/A CUR. DEM.: N/A	OPERABILITY	40 YEARS	20 YEARS	OPERABILITY REVIEW	TEST REPORT SECT. 7.0 PAGE 16 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	NONE	ACCEL TIME: 264 HOURS
	NORM/TEST DBA	1 YEAR POST DBA	NORMAL 6.52 MO. POST DBA		TEST REPORT SECT. 5.1 PAGE 9 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	H NONE	ACCEL TEMP: 400 °F
	TEMPERATURE	120 °F NORM	122 °F NORM	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.6 PAGE 12 & 13 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	H NONE	REPLACEMENT: 20 YEARS
	PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.6 PAGE 12 & 13 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	H NONE	MAINTAIN.
	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 5.6 PAGE 12 & 13 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	H NONE	SUBCOMPONENTS:
	CHEMICAL SPRAY	2000-2100 PPM BORON	2750 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 5.6 PAGE 12 & 13 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	H NONE	
	R GAMMA	1.2 E6	24. E7 GAMMA	FSAR APP. 3.11.8-21	TEST REPORT SECT. 5.3 PAGE 9 & 10 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	H NONE	
	A BETA	3.4 E7	91.3 E7 BETA	CONT. RAD. ZONE C5	TEST REPORT SECT. 7.0 PAGE 16 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	NONE	SAFETY FUNCTIONS: SEE TAB B OF ESE-5
	U SHIELD	100% BETA	100% BETA		TEST REPORT SECT. 7.0 PAGE 16 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	NONE	
	T.I.D.	4.7 E6	24.7 E7		TEST REPORT SECT. 7.0 PAGE 16 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	NONE	
	AGE - INST LIFE (PER 325-1974 DEF.)	40 YEARS	20 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.0 PAGE 16 SRS TAB E	COMB. TYPE TEST & SUPP. REVIEW	NONE	
	SURMERGED	228.3 YES	N/A	FSAR SECTION 13.6	N/A	N/A	NONE	AUTH. REFERENCE: H.J.H.

SPECIFICATIONS: **TIME: 951337.70**
2149.4325 E, RG
NO: 265762 CHD N: 15H. # 184
 INST LOC: **C.B. 31**
 COORDINATES: **X-1511.0**
Y-1678.0
Z-257.0
 QUALIFIED: **QUALIFIED WITHOUT EXCEPTION**
 REFERENCES: **FLOW DIAG. CAR-2165 9800**
 REVISION: **10**
 DATE: **16-18-84**
 SYSTEM: **REACTOR COOLANT**
 TAG: **E-IRC 0420**

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		METHOD		H/N/I		OUTS	
PARAMETER		ACTUAL		ACTUAL		ACTUAL		METHOD		H/N/I		ITEMS	
EQUIPMENT: SENSOR		OPERABIL-ITY	40 YEARS	123 YEARS	OPERABILITY	TEST REPORT	COMB TYPE						ACCEL TIME:
EQUIPMENT: TEMP. ELEMENT		TEMPERAT-URE	120° F NORM	122° F NORM	FSAR TABLE	TEST REPORT	COMB TYPE						264 HOURS
EQUIPMENT: TRF		PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.4-1 FOR DBA	TEST REPORT	COMB TYPE						ACCEL TEMP:
EQUIPMENT: WESTINGHOUSE		RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE	TEST REPORT	COMB TYPE						400° F
EQUIPMENT: REACTOR COOLANT		CHEMICAL SPRAY	12000-2100 PPM BOREN	12750 PPM BOREN	FSAR SECT. 3.11.5.1	TEST REPORT	COMB TYPE						REPLACEMENT:
EQUIPMENT: DIFF. TEMP. TEMP. AVG. CONTROL-HOT LEG		PH	8.5-11.0	10.7	FSAR SECT. 3.11.4.3 (DBA)	TEST REPORT	COMB TYPE						23 YEARS
EQUIPMENT: SPECI		AGE			110 CFR 50 PARAGRAPH 50.51	TEST REPORT	COMB TYPE						MAINTAIN:
EQUIPMENT: DEM.		INST LIFE	40 YEARS	23 YEARS	FSAR APP. 3.11.2-21	TEST REPORT	COMB TYPE						SUBCOMPONENTS:
EQUIPMENT: SPECIFICATIONS		SURMERGENCE	228.3	N/A	CONT. RAD. ZONE CS	TEST REPORT	COMB TYPE						
EQUIPMENT: VAL. NEPT		OTHER EQUIPMENT THIS CES APPLIES TO:											
EQUIPMENT: BY FIELD		PARAMETER											
EQUIPMENT: EXEMPT		OPERABILITY											
EQUIPMENT: QUALIFIED		TEMPERATURE											
EQUIPMENT: WITHOUT EXCEPTION		PRESSURE											
EQUIPMENT: DNG NEPT CAR 2165 G 163		REL. HUMIDTY											
EQUIPMENT: DNG LIC TOTAL EQPT. LIST		CHEM. SPRAY											
EQUIPMENT: DNG LIC W.P.O. 265762		RADIATION											
EQUIPMENT: DNG LIC W.P.O. 265762		AGING											
EQUIPMENT: DNG LIC W.P.O. 265762		SURMERGENCE											
EQUIPMENT: DNG LIC W.P.O. 265762		FSAR EHV CAT:											
EQUIPMENT: DNG LIC W.P.O. 265762		19588 CATEG:											
EQUIPMENT: DNG LIC W.P.O. 265762		APPENDIX E											

REFERENCES: FLOW DIAG. 2165 G 802

SAFETY FUNCTION: SEE TAB B OF ESE-G

AUTH. REFERENCE: M. J. H.

REVISION # : 0
DATE : 10-18-84
SYSTEM : REACTOR COOLANT
TAG : TE-IRC 0421B

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	M/M	OUTS ITEMS		
	PARAMETER	ACTUAL	DEM.	QUALIF.					ACTUAL
UNIT NO: TE-IRC 0421C	OPERABIL-ITY	40 YEARS	23 YEARS	OPERABILITY	TEST REPORT SECT. 7.0	COMB. TYPE		ACCEL TIME: 264 HOURS	
EQUIPMENT: SENSOR	NORM/TEST	1 YEAR	6.52 MO.	REVIEW	PAGE 17	TEST &	NONE		
EQUIPMENT: TEMP. ELEMENT	DBA	POST DBA	POST DBA		SRS TAB E	SUPP.		ACCEL TEMP: 400°F	
MANUFACTURER: R/F	TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT SECT. 5.1	COMB. TYPE	H	REPLACEMENT: 23 YEARS	
MANUFACTURER: WESTINGHOUSE	FSAR FIG.	3.11.4-1 FOR DBA	420°F DBA	19.4.0-1 FSAR FIG.	PAGE 10	TEST &	NONE		
	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	3.11.6 NORM.	SRS TAB E	SUPP.		MAINTAIN.	
	FSAR FIG.	3.11.8-1 FOR DBA	81PSIA DBA	3.11.6-1 (DBA)	TEST REPORT SECT. 5.7	COMB. TYPE	H	SUBCOMPONENTS:	
FUEL AND: 21204	RELATIVE HUMIDITY	40% NORM.	100% NORM.	FSAR TABLE	TEST REPORT SECT. 5.7	COMB. TYPE	H	NONE	
DIFF. TEMP. - TEMP. AVG. CONT. HOT LEG		100% DBA	100% DBA	19.4.0-1 NORM.	PAGE 14	TEST &			
	CHEMICAL SPRAY	2000-2100 PPM BOREN	2750 PPM BOREN	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 5.7	COMB. TYPE	H	NONE	
CUM. SPEC: N/A		PH 8.5-11.0	PH 10.7		PAGE 14	TEST &			
CUM. DEM.: N/A	R GAMMA	1.2 EG	124.7 E7 GAMMA	FSAR APP. 3.11B-21	SRS TAB E	SUPP.			
	A BETA	3.4 E7	11.7 E7 BETA	CONT. RAD. ZONE CS	PAGE 9 & 10	TEST &	H	NONE	
	D SHIELD	100% BETA	100% BETA		SRS TAB E	SUPP.			
	T.I.D.	14.7 EG	124.7 E7		PAGE 15 THRU 4E	TEST &			
	AGE			10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.0	COMB. TYPE		SAFETY FUNCTIONS: SRS TAB B OF ESE-G	
	INST LIFE	40 YEARS	23 YEARS		PAGE 17	TEST &	NONE		
	(PER 323-1974 DEF.)				SRS TAB E	SUPP.			
	BURNEGED	228.3	N/A	FSAR SECTION 13.6	PAGE 1A	TEST &			
		YES			SRS TAB E	REVIEW	NONE	AUTH. REFERENCE: M. J. H.	
	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-G		
	OPERABILITY	O							
	TEMPERATURE	T							
	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
	AGING	A							
	BURNEGENCE	S							
	FSAR ENV CATI 10588 CATEG. 1	A							
	APPENDIX E								
			REFERENCES: FLOW DIAG. 2165 G802				REVISION # 10		
							DATE 16-18-84		
							SYSTEM: REACTOR COOLANT		
							TAB: TR-IRC 0421C		

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	ITEMS	
	PARAMETER	ACTUAL	DESIGN	QUALIF.	ACTUAL	DESIGN	QUALIF.	ITEMS
UNIT NO: TE-IRC 0422A	OPERABILITY	40 YEARS	23 YEARS	123 YEARS	TEST REPORT	COMB. TYPE		ACCEL TIME: 264 HOURS
EQUIPMENT: SENSOR	ITY	NORMAL	NORMAL	NORMAL	SECT. 7.0	TEST &		ACCEL TEMP: 400°F
	NORM/TEST	1 YEAR	16.52 MO.		PAGE 17	SUPP.	NONE	
COMPONENT: TEMP. ELEMENT	DBA	POST DBA	POST DBA		SRS TAB E	REVIEW		REPLACEMENT: 23 YEARS
	TEMPERATURE	120°F NORM	122°F NORM		19.4.0-1	TEST REPORT		
MANUFACTURER: TRF	FSAR FIG.				SECT. 5.1	TEST &	H	MAINTAIN.
	DBA	420°F DBA			PAGE 10	SUPP.	NONE	
MANUFACTURER: WESTINGHOUSE	FSAR FIG.				SRS TAB E	REVIEW		SUBCOMPONENTS:
	DBA	81 PSIA DBA			P. 76 OF 96			
MODEL AND: 21204	FSAR FIG.				SECT. 5.7	TEST &	H	SUBCOMPONENTS:
	DBA	100% DBA	100% DBA		PAGE 14	SUPP.	NONE	
SERIAL #: 224	FSAR FIG.				SRS TAB E	REVIEW		SUBCOMPONENTS:
	DBA	100% DBA	100% DBA		P. 76 OF 96			
SPEC. USE: REACTOR COOLANT SERVICE	FSAR FIG.				SECT. 5.7	TEST &	H	SUBCOMPONENTS:
	DBA	100% DBA	100% DBA		PAGE 14	SUPP.	NONE	
DIFF. TEMP. - TEMP. AVG. PROTECTION	FSAR FIG.				SRS TAB E	REVIEW		SUBCOMPONENTS:
	DBA	100% DBA	100% DBA		P. 76 OF 96			
CHEMICAL SPRAY	FSAR FIG.				SECT. 5.7	TEST &	H	SUBCOMPONENTS:
	DBA	100% DBA	100% DBA		PAGE 14	SUPP.	NONE	
PH 8.5-11.0	FSAR FIG.				SRS TAB E	REVIEW		SUBCOMPONENTS:
	DBA	100% DBA	100% DBA		P. 86 OF 96			
PH 10.7	FSAR FIG.				SECT. 5.3	TEST &	H	SUBCOMPONENTS:
	DBA	100% DBA	100% DBA		PAGE 9 & 10	SUPP.	NONE	
1025°C	FSAR FIG.				SRS TAB E	REVIEW		SUBCOMPONENTS:
	DBA	100% DBA	100% DBA		P. 16 THRU 4E			
R GAMMA	FSAR FIG.				SECT. 7.0	TEST &		SAFETY FUNCTIONS: SEE TAB B OF ESE-6
	DBA	100% DBA	100% DBA		PAGE 17	SUPP.	NONE	
A BETA	FSAR FIG.				SRS TAB E	REVIEW		SAFETY FUNCTIONS: SEE TAB B OF ESE-6
	DBA	100% DBA	100% DBA		P. 16 THRU 4E			
D SHIELD	FSAR FIG.				SECT. 7.0	TEST &		SAFETY FUNCTIONS: SEE TAB B OF ESE-6
	DBA	100% DBA	100% DBA		PAGE 17	SUPP.	NONE	
T.I.D.	FSAR FIG.				SRS TAB E	REVIEW		SAFETY FUNCTIONS: SEE TAB B OF ESE-6
	DBA	100% DBA	100% DBA		P. 16 THRU 4E			
INST LIFE	FSAR FIG.				SECT. 7.0	TEST &		SAFETY FUNCTIONS: SEE TAB B OF ESE-6
	DBA	100% DBA	100% DBA		PAGE 17	SUPP.	NONE	
(PER 323-1974 DEF.)	FSAR FIG.				SRS TAB E	REVIEW		SAFETY FUNCTIONS: SEE TAB B OF ESE-6
	DBA	100% DBA	100% DBA		P. 16 THRU 4E			
SUBMERGED	FSAR FIG.				SECT. 7.0	TEST &		SAFETY FUNCTIONS: SEE TAB B OF ESE-6
	DBA	100% DBA	100% DBA		PAGE 17	SUPP.	NONE	
YES	FSAR FIG.				SRS TAB E	REVIEW		SAFETY FUNCTIONS: SEE TAB B OF ESE-6
	DBA	100% DBA	100% DBA		P. 16 THRU 4E			

OTHER EQUIPMENT THIS CES APPLIES TO: _____
 QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-6
 REFERENCES: FLOW DIAG. 2165 G 802
 REVISION #: 0
 DATE: 10-18-84
 SYSTEM: REACTOR COOLANT
 TAG: TE-IRC 0422A

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF.	N/M/OUTS	
	PARAMETER	ACTUAL	DEM.	QUALIF.	METHOD	ITEMS	
DB NO 1 TE-IRC 0422B	OPERABILITY	40 YEARS	23 YEARS	OPERABILITY	TEST REPORT	COMB. TYPE	ACCEL TIME:
	ITY	NORMAL	NORMAL	REVIEW	SECT. 7.0	TEST &	264 HOURS
	NORM/TEST	1 YEAR	16.52 MO.		PAGE 17	SUPP.	NONE
EQUIPMENT: SENSOR	DBA	POST DBA	POST DBA		SRS TAB E	REVIEW	ACCEL TEMP:
TE					P. 1F THRU 4F		400°F
COMPONENT: TEMP. ELEMENT	TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT	COMB. TYPE	REPLACEMENT:
	URE	FSAR FIG.		19.4.0-1	SECT. 5.1	TEST &	23 YEARS
		3.11.4-1 FOR	420°F DBA	FSAR FIG.	PAGE 10	SUPP.	H NONE
		DBA		3.11.4-1	SRS TAB E	REVIEW	
MANUFACTURER: TRF					P. 7G OF 9G		MAINTAIN.
	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT.	TEST REPORT	COMB. TYPE	SUBCOMPONENTS:
		FSAR FIG.	81PSIA DBA	3.11.6 NORM.	SECT. 5.7	TEST &	H NONE
		3.11.8-1 FOR		FIG.	PAGE 14	SUPP.	
		DBA		3.11.6-1 (DBA)	SRS TAB E	REVIEW	
JOB: WESTINGHOUSE					P. 7G OF 9G		
COMPILER							
MODEL AND: 21204	RELATIVE HUMIDITY	40% NORM.	100% NORM.	FSAR TABLE	TEST REPORT	COMB. TYPE	
SERIAL #: 225		100% DBA	100% DBA	19.4.0-1 NORM	SECT. 5.7	TEST &	H NONE
				FSAR SECT.	PAGE 14	SUPP.	
FACTORY: REACTOR COOLANT				3.11.4.3 (DBA)	SRS TAB E	REVIEW	
SERVICE LOOP B DIFF. TEMP.					P. 7G OF 9G		
TEMP. AVG.							
	CHEMICAL SPRAY	2000-2100	2750 PPM	FSAR SECT.	TEST REPORT	COMB. TYPE	
		17PM BORON	BORON	3.11.5.1	SECT. 6.7	TEST &	H NONE
		PH 8.5-11.0	PH 10.7		PAGE 14	SUPP.	
			1025°C		SRS TAB E	REVIEW	
					P. 8G OF 9G		
CUR. SPEC: N/A	R GAMMA	1.2 EG	124.7E7 GAMMA	FSAR APP.	TEST REPORT	COMB. TYPE	
	A BETA	3.4 E7	11.7E7 BETA	3.11B-21	SECT. 5.3	TEST &	H NONE
	D SHIELD	100% BETA	100% BETA	CONT. RAD.	PAGE 9 & 10	SUPP.	
	T.I.D.	14.7 EG	124.7 E7	ZONE CS	SRS TAB E	REVIEW	
					P. 1F THRU 4F		
SPECIFICATIONS: E. SPEC. 95337	AGE-INST LIFE	40 YEARS	23 YEARS	10 CFR 50	TEST REPORT	COMB. TYPE	SAFETY FUNCTION:
REV. 0	(PER 323-1974 DEF.)			PARAGRAPH	SECT. 7.0	TEST &	SEE TAB B OF ESE-G
01265762				50.51	PAGE 17	SUPP.	
					SRS TAB E	REVIEW	
					P. 1F THRU 4F		
ANT LOC: 1CB. 31	SUBMERGED	228.3	N/A	FSAR SECTION	N/A	N/A	NONE
	YES			13.6	SRS TAB E		AUTH. REFERENCE:
ORDINATES X=1512.0					PAGE 1A		M. J. H.
Y=1672.0							
Z= 257.0							
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF
INSTAL. NEFT BY FIELD	OPERABILITY	O ESE-G					FOUND IN DOCUMENTATION
IF EXEMPT: N/A	TEMPERATURE	T					PACKAGE: ESE-G
LIFE QUALIFIED	PRESSURE	P					
PLUS WITHOUT EXCEPTION	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
	AGING	A					
	SUBMERGENCE	S					
	FSAR ENV CAT:		REFERENCES:				
	10588 CATEG:	A	FLOW DIAG. 2165.G802				
	APPENDIX E						

3 DNG NEFCAR 2165 G163
 3 DNG LUCI TOTAL EQPT. LIST
 DOC. LUCI W P.O. 265762
 REVISION # 10
 DATE 16-18-84
 SYSTEM REACTOR COOLANT
 TAB 1 TE-IRC 0422B

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIF.	H/W	OUTS	ITEMS	
NO	TE-IRC 0422C	PARAMETER	ACTUAL	DES. QUALIF.	ACTUAL	DES. QUALIF.	METHOD			
NO	TE-IRC 0422C	OPERABILITY	40 YEARS	23 YEARS	OPERABILITY	TEST REPORT	COMB TYPE			ACCEL TIME
		ITY	NORMAL	NORMAL	REVIEW	SECT. 7.0	TEST &			264 HOURS
		INDRM/TEST	1 YEAR	16.52 MO.		PAGE 17	SUPP.		NONE	
		DBA	POST DBA	POST DBA		SRS TAB E	REVIEW			ACCEL TEMP
		TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT	COMB TYPE			400°F
		FSAR FIG.			19.4.0-1	SECT. 5.1	TEST &	H	NONE	REPLACEMENT
		3.11.4-1 FOR DBA	420°F DBA	3.11.4-1	FSAR FIG.	PAGE 10	SUPP.			23 YEARS
					3.11.4-1	SRS TAB E	REVIEW			MAINTAIN.
		PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT.	TEST REPORT	COMB TYPE			
		FSAR FIG.			3.11.6 NORM.	SECT. 5.7	TEST &			
		3.11.8-1 FOR DBA	81PSIA DBA	3.11.6-1 (DBA)	FSAR FIG.	PAGE 14	SUPP.	H	NONE	SUBCOMPONENTS
					13.11.6-1 (DBA)	SRS TAB E	REVIEW			
		RELATIVE HUMIDITY	40% NORM.	100% NORM.	FSAR TABLE	TEST REPORT	COMB TYPE			
			100% DBA	100% DBA	19.4.0-1 NORM.	SECT. 5.7	TEST &	H	NONE	
					FSAR SECT.	PAGE 14	SUPP.			
					3.11.4.3 (DBA)	SRS TAB E	REVIEW			
		CHEMICAL SPRAY	2000-2100	2750 PPM.	FSAR SECT.	TEST REPORT	COMB TYPE			
			PRM BORON	BORON	3.11.5.1	SECT 5.7	TEST &	H	NONE	
			PH 8.5-11.0	PH 10.7		PAGE 14	SUPP.			
				1025°C		SRS TAB E	REVIEW			
		R GAMMA	1.2 EG	124.7E7 GAMMA	FSAR APP.	TEST REPORT	COMB TYPE			
		A BETA	3.4 E7	11.7E7 BETA	3.11B-21	SECT. 5.3	TEST &	H	NONE	
		D SHIELD	100% BETA	100% BETA	CONT. RAD. ZONE CS	PAGE 9 & 10	SUPP.			
		T.I.D.	14.7 EG	124.7 E7		SRS TAB E	REVIEW			
						P. 1E THRU 4E				
		AGE-INST LIFE	40 YEARS	23 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT	COMB TYPE			SAFETY FUNCTION
		(PER 323-1974 DEF.)				SECT. 7.0	TEST &		NONE	SEE TAB B OF ESE-G
						PAGE 17	SUPP.			
						SRS TAB E	REVIEW			
						P. 1E THRU 6E				
		BURNEGED	228.3	N/A	FSAR SECTION 13.6	N/A	N/A		NONE	AUTH. REFERENCE
		YES				SRS TAB E	REVIEW			M. J. H.
						PAGE 1A				
OTHER EQUIPMENT THIS CES APPLIES TO:										
REFERENCES: FLOW DIAG. 2165 G802										
QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-G										
REVISION # : 0										
DATE : 16-18-84										
SYSTEM : REACTOR COOLANT										
TAG : TE-IRC 0422C										

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		N/A/OUTS	
PARAMETER ACTUAL		DEM. QUALIF.		ACTUAL DEM. QUALIF.		METHOD		ITEMS	
EQUIPMENT: SENSOR		TEMPERATURE		FSAR TABLE		TEST REPORT		COMB. TYPE	
EQUIPMENT: TEMP. ELEMENT		TEMPERATURE		FSAR FIG.		SECT. 5.1		TEST &	
EQUIPMENT: R/F		PRESSURE		ATMOS. NORM.		SECT. 5.7		TEST &	
EQUIPMENT: WESTINGHOUSE		RELATIVE HUMIDITY		40% NORM.		PAGE 14		SUPP.	
EQUIPMENT: REACTOR COOLANT		CHEMICAL SPRAY		2000-2100		FSAR SECT.		TEST REPORT	
EQUIPMENT: DIFF. TEMP. TEMP. AVG PROTECTION		CHEMICAL SPRAY		PH 8.5-11.0		3.11.5.1		SECT 5.7	
EQUIPMENT: SPECI N/A		R GAMMA		1.2 EG		FSAR APP.		TEST REPORT	
EQUIPMENT: DEM. N/A		A BETA		3.4 E7		3.11B-21		SECT. 5.3	
EQUIPMENT: SPECIFICATIONS		D SHIELD		100% BETA		CONT. RAD.		PAGE 9 & 10	
EQUIPMENT: AGE		INST LIFE		40 YEARS		10 CFR 50		TEST REPORT	
EQUIPMENT: INST LIFE		SURMERGED		YES		13.6		SRS TAB E	
EQUIPMENT: SURMERGED		PARAMETER		SUPPL. REVIEW		OTHER EQUIPMENT THIS CES APPLIES TO:		QUALIFICATION SIGN-OFF	
EQUIPMENT: OPERABILITY		TEMPERATURE		PRESSURE		REL. HUMIDTY		CHEM. SPRAY	
EQUIPMENT: RADIATION		AGING		SURMERGENCE		FSAR ENV CAT		1958B CATEG.	
EQUIPMENT: APPENDIX E		REFERENCES:		FLOW DIAG. 2165 G 802		REVISION # 10		DATE 16-18-84	
EQUIPMENT: DOC. LUCI		SYSTEM		REACTOR COOLANT		TAG		TE-IRC 0422D	

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		ITEMS	
PARAMETER		ACTUAL	DESIGN	ACTUAL	DESIGN	METHOD	ITEMS		
EQUIPMENT NO: E-IRC 0423		OPERABILITY	40 YEARS	20 YEARS	OPERABILITY	TEST REPORT SECT. 7.0	TEST & SUPP. REVIEW	NONE	ACCEL TIME: 264 HOURS
COMPONENT: SENSOR		NORM/TEST	1 YEAR	16.52 MO.	REVIEW	PAGE 16 SRS TAB E	REVIEW		ACCEL TEMP: 400°F
COMPONENT: TEMP ELEMENT		TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT SECT. 5.1	TEST & SUPP. REVIEW	H NONE	REPLACEMENT: 20 YEARS
MANUFACTURER: RDF			FSAR FIG. 3.11.4-1 FOR DBA	420°F DBA	FSAR FIG. 3.11.4-1	PAGE 9 SRS TAB E	REVIEW		MAINTAIN.
MANUFACTURER: WESTINGHOUSE		PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.6 NORM	TEST REPORT SECT. 5.6	TEST & SUPP. REVIEW	H NONE	SUBCOMPONENTS:
APPLIC: WESTINGHOUSE			FSAR FIG. 3.11.8-1 FOR DBA	81 PSIA DBA	FIG. 3.11.6-1 (DBA)	PAGE 12 & 13 SRS TAB E	REVIEW		
DEL AND: 21205		RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE	TEST REPORT SECT. 5.6	TEST & SUPP. REVIEW	H NONE	
SERIAL # 216			100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	PAGE 12 & 13 SRS TAB E	REVIEW		
SYSTEM: REACTOR COOLANT SERVICE LOOP 2 HOT LEG		CHEMICAL SPRAY	2000-2100 PPM	12750 PPM	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 5.6	TEST & SUPP. REVIEW	H NONE	
CUM. SPEC: N/A			PRM BORON	BORON		PAGE 12 & 13 SRS TAB E	REVIEW		
CUM. DEM.: N/A		R Gamma	1.2 E6	247 E6	FSAR APP 3.11.8-21	TEST REPORT SECT. 5.3	TEST & SUPP. REVIEW	H NONE	
SPECIFICATIONS: INSTR. SPEC. 953397, R0		A BETA	3.4 E7	11.367 BETA	CONT. RAD. ZONE CS	PAGE 9 & 10 SRS TAB E	REVIEW		
DWG: 43258, R6		D SHIELD	100% BETA	100% BETA		PAGE 28 THRU 58	REVIEW		
CND # 183		T.I.D.	4.7 E6	1247 E7					
INST LOC: C.B. 31		AGE - INST LIFE	40 YEARS	20 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.0	TEST & SUPP. REVIEW	NONE	SAFETY FUNCTIONS: SEE TAB B OF ESE-5
COORDINATES: X-1513.0						PAGE 16 SRS TAB E	REVIEW		
Y-1673.0		SURMERGED	228.3	N/A	FSAR SECTION 3.6	N/A	N/A	NONE	AUTH. REFERENCE: M.J.H
Z-257.0			YES			SRS TAB E	N/A		
INSTALL: BY FIELD		PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-5	
IF EXEMPT: N/A		OPERABILITY	O ESE-5	REFERENCES: FLOW DIAG. CAR-2165 G 800				REVISION # 10 DATE 16-18-84 SYSTEM: REACTOR COOLANT TAG: E-IRC 0423	
LIFE: QUALIFIED		TEMPERATURE	T						
WITHOUT EXCEPTION		PRESSURE	P						
DNG KEYS: CAR-2165 G163		REL. HUMIDTY	H						
DNG LISTS: TOTAL EQUIP. LIST		CHEM. SPRAY	C						
DNG: W P.O. 265762		RADIATION	R						
		ACTION	A						
		SURMERGENCE	S						
		FSAR ENV CAT: 10588 CATEG. A	A						
		APPENDIX E	E						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL DEH. QUALIF.				
TAG NO: FT-IRC-424	OPERABILITY	40 YEARS	2	OPERABILITY REVIEW	5	6	7	
EQUIPMENT: SENSOR TYPE	NORM/TEST DBA	NORMAL 1 YEAR POST DBA						
COMPONENT: FLOW TRANSMITTER	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1				
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA		FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1(DBA)				
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3(DBA)				
FUNCTIONS: REACTOR COOLANT & SERVICE	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1				
ACCUR. SPEC: N/A	R GAMMA	1.2 E6		FSAR APP. 3.11.8-18 CONT. RAD. ZONE C3				
ACCUR. DEM.: N/A	A BETA	3.3 E7						
SPECIFICATIONS: W. PROJ. SPEC. 953328, R3 955270, R0	D SHIELD	T.I.D.						
P.O #: 414524 CND #: SN#0195	AGE- INST LIFE (PER 323-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51				
PLANT LOC.: C.23.	SUBMERGED	228.3		FSAR SECTION				
COORDINATES X= 1503.0 Y= 1646.0 Z= 236.0								
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTAL. REF:	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165.9 800					
QUALIF EXEMPT:	TEMPERATURE	T						
QUALIF:	PRESSURE	P						
STATUS:	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
PHYS DMG REF: CAR-2166 G450	AGING	A					REVISION #:	
PHYS DMG LOC: TOTAL EQUIP. LIST	SUBMERGENCE	S					DATE:	
MOUNTING:							SYSTEM: REACTOR COOLANT	
EQ. DUC. LOC:	FSAR ENV CAT:						TAG: FT-IRC-424	
	ISSB CATEG.:							
	APPENDIX E							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: FT-IRC 425	OPERABILITY	40 YEARS	OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: SENSOR	NORM/TEST DBA	1 YEAR POST DBA				ACCEL TEMP
COMPONENT: FLOW TRANSMITTER	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1			REPLACEMENT
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)			MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			SUBCOMPONENTS
MODEL AND SERIAL: 752 4778	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1			
FUNCTIONS: REACTOR COOLANT & SERVICE	R GAMMA A BETA D SHIELD	1.2 EG 3.3 EG T.I.D.	FSAR APP 3.11.8-18 CONT. RAD. ZONE C 3			
ACCUR. SPEC: N/A	AGE - INST LIFE	40 YEARS	10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION
ACCUR. DEH.: N/A W. PROJ. SPEC. 953328, R3 SPECIFICATIONS: 955270, R0	SURMERGED	228.3	FSAR SECTION			AUTH. REFERENCE
P.O. #14524 CND # 15H.#195	PLANT LOC.: C.B.					
COORDINATES X=1496.0 Y=1646.0 Z=236.0	INSTALLED (Y/H):					
INSTALL. REF:	INSTALL. REF:					
QUALIF EXEMPTN:	QUALIF EXEMPTN:					
QUALIF:	QUALIF:					
STATUS:	STATUS:					
PHYS DNG REF: CAR-2166 G450	PHYS DNG REF: CAR-2166 G450					
PHYS DNG LOC: TOTAL EQUIP LIST	PHYS DNG LOC: TOTAL EQUIP LIST					
MOUNTING:	MOUNTING:					
EQ. DOC. LOC:	EQ. DOC. LOC:					
	PARA-METER	SUPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
	OPERABILITY	O				
	TEMPERATURE	T				
	PRESSURE	P				
	REL. HUMIDTY	H				
	CHEM. SPRAY	C				
	RADIATION	R				
	AGING	A				
	SURMERGENCE	S				
	FSAR ENV CAT:					
	10588 CATEG.:					
	APPENDIX E:					
			REFERENCES: CAR-2165 G800 - FLOW DIAG.			
						REVISION #:
						DATE:
						SYSTEM: REACTOR COOLANT
						TAG: FT-IRC 425

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	N/M	OUTS
	PARAMETER	ACTUAL				
TAG NO: FT-IRC 426	OPERABILITY	40 YEARS NORMAL	OPERABILITY REVIEW			ACCEL TIME:
EQUIPMENT TYPE: SENSOR	NORM/TEST DBA	1 YEAR POST DBA				ACCEL TEMP:
COMPONENT: FLOW TRANSMITTER	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1			REPLACEMENT:
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)			MAINTAIN.:
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			SUBCOMPONENTS:
MODEL AND SERIAL: 752 4779	CHEMICAL SPRAY	2000-2100 PHM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1			
FUNCTIONS & SERVICE: REACTOR COOLANT	R GAMMA A BETA D SHIELD	1.2 EG 3.3 ET T.I.D.	FSAR APP 3.11.8-18 CONT. RAD. ZONE C3			
ACCUM. SPEC: N/A	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS	10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION:
ACCUM. DEM. N/A N. PROD. SPEC. 953328, R3 SPECIFICATIONS: 955270, R0	SUBMERGED	228.3	FSAR SECTION			AUTH. REFERENCE:
P.O. # 44524 CHD # 1 SH # 195						
PLANT LOC.: C.B.						
COORDINATES X=1490.0 Y=1698.0 Z=236.0						

INSTALLED (Y/M):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
INSTAL. REFI:	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G800	REVISION # : DATE : SYSTEM : REACTOR COOLANT TAG : FT-IRC 426
QUALIF EXEMPT:	TEMPERATURE	T		
*****	PRESSURE	P		
QUALIF:	REL. HUMIDTY	H		
STATUS	CHEM. SPRAY	C		
*****	RADIATION	R		
PHYS DMG REFI: CAR-2166 G950	AGING	A		
PHYS DMG LUC: TOTAL EQUIP. LIST	SUBMERGENCE	S		
*****	FSAR ENV CAT:			
*****	1958 CATEG.:			
*****	APPENDIX E			

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M/OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL DEM. QUALIF.		
NO: RC 0430	OPERABILITY	40 YEARS	120 YEARS	OPERABILITY TEST REPORT SECT. 7.0	COMB. TYPE	ACCEL TIME: 264 HOURS
PHEN: SENSOR	ITY	NORMAL	INORMAL	REVIEW	TEST & SUPP.	NONE
PHEN: TEMP. ELEMENT	NORM/TEST	1 YEAR	16.52 MO	FSAR TABLE	REVIEW	ACCEL TEMP: 400 °F
PHEN: R/F	DBA	POST DBA	POST DBA	FSAR TABLE	REVIEW	REPLACEMENT: 20 YEARS
PHEN: WESTINGHOUSE	TEMPERATURE	120 °F NORM	122 °F NORM	FSAR TABLE	REVIEW	MAINTAIN.
PHEN: 21205	URE	FSAR FIG. 3.11.4-1 FOR DBA	420 °F DBA	19.4.0-1 FSAR FIG. 3.11.4-1	TEST & SUPP.	H NONE
PHEN: 217	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.6	NONE
PHEN: WESTINGHOUSE	DBA	81 PSIA DBA	81 PSIA DBA	13.11.6-1 (DBA)	TEST & SUPP.	H NONE
PHEN: 21205	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE	TEST REPORT SECT. 5.6	NONE
PHEN: 217	DBA	100% DBA	100% DBA	19.4.0-1 NORM	TEST & SUPP.	H NONE
PHEN: REACTOR COOLANT	CHEMICAL SPRAY	2000-2100 PPM	12750 PPM	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 5.6	NONE
PHEN: 3 COLD LEG	PH 8.5-11.0	PH 10.7	PH 10.7	13.11.5.1	TEST & SUPP.	H NONE
PHEN: N/A	R GAMMA	1.2 E6	124. E7 GAMMA	FSAR APP	TEST REPORT SECT. 5.3	NONE
PHEN: N/A	A BETA	3.4 E7	191.3 E7 BETA	3.11.8-2	TEST & SUPP.	H NONE
PHEN: N/A	D SHIELD	100% BETA	100% BETA	CONT. RAD. ZONE CS	TEST & SUPP.	H NONE
PHEN: N/A	T.I.D.	4.7 E6	124.7 E7	13.11.4.3 (DBA)	TEST & SUPP.	H NONE
PHEN: N/A	AGE - INST LIFE	40 YEARS	20 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.0	SAFETY FUNCTIONS: SEE TAB B OF ESE-5
PHEN: N/A	(PER 323-1979 DEF.)				TEST & SUPP.	NONE
PHEN: N/A	SURMERGED	228.3	N/A	FSAR SECTION 3.6	TEST & SUPP.	NONE
PHEN: N/A	YES				TEST & SUPP.	NONE

QUALIFIED WITHOUT EXCEPTION
 DNG REF: CAR-2165 G163
 DNG LUC: TOTAL EQUIP LIST
 DNG LUC: W P.O. 265762

PARAMETER: OPERABILITY, TEMPERATURE, PRESSURE, REL. HUMIDTY, CHEM. SPRAY, RADIATION, AGING, SURMERGENCE, FSAR ENV CAT, 10500 CATEG. A, APPENDIX E

OTHER EQUIPMENT THIS CES APPLIES TO:
 REFERENCES:
 FLOW DIAG. CAR-2165 G 800

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-5
 REVISION # : 0
 DATE: 16-18-84
 SYSTEM: REACTOR COOLANT
 TAG: TE-IRC 0430

AUTH. REFERENCE: M. J. H.



EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		METHOD		H/WI OUTS	
PARAMETER ACTUAL		DEN. QUALIF.		ACTUAL DEN. QUALIF.		METHOD		ITEMS		ITEMS	
TAG NO: TE-IRC 0431B		OPERABILITY	40 YEARS	23 YEARS	OPERABILITY	TEST REPORT	COMB. TYPE				ACCEL TIME:
		ITY	NORMAL	NORMAL	REVIEW	SECT. 7.0	TEST &				264 HOURS
EQUIPMENT: SENSOR		NORM/TEST	1 YEAR	6.52 MO.		PAGE 17	SUPP.			NONE	
TYPE		DBA	POST DBA	POST DBA		SRS TAB E	REVIEW				ACCEL TEMP:
		TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT	COMB. TYPE				400°F
COMPONENT: TEMP. ELEMENT		URE	FSAR FIG.	FSAR FIG.	19.4.0-1	SECT. 5.1	TEST &	H	NONE		REPLACEMENT:
			3.11.4-1 FOR	420°F DBA	FSAR FIG.	PAGE 10	SUPP.				23 YEARS
MANUFACTURER: R/JF		DBA			3.11.4-1	SRS TAB E	REVIEW				MAINTAIN:
		PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT.	TEST REPORT	COMB. TYPE				
MAJOR SUPPLIER: WESTINGHOUSE					3.11.6 NORM.	SECT. 5.7	TEST &	H	NONE		SUBCOMPONENTS:
MODEL AND SERIAL #					3.11.6-1 (DBA)	PAGE 14	SUPP.				
21204 228		RELATIVE HUMIDITY	40% NORM.	100% NORM.	FSAR TABLE	TEST REPORT	COMB. TYPE				
			100% DBA	100% DBA	19.4.0-1 NORM.	SECT. 5.7	TEST &	H	NONE		
UNIQUE USE: REACTOR COOLANT, SERVICE DIFF. TEMP. TEMP. AVG. CONTROL HOT LEG					FSAR SECT.	PAGE 14	SUPP.				
		CHEMICAL SPRAY	2000-2100 PPM BORON	2750 PPM BORON	3.11.5.1	SECT. 5.7	TEST &	H	NONE		
			PH 8.5-11.0	PH 10.7		PAGE 14	SUPP.				
ACCUM. SPEC: N/A				1025°C		SRS TAB E	REVIEW				
ACCUM. DEN.: N/A		R Gamma	1.1 EG	124.7 E7 Gamma	FSAR APP.	TEST REPORT	COMB. TYPE				
		A BETA	17 E7	11.7 E7 BETA	3.11B-21	SECT. 5.3	TEST B	H	NONE		
		D SHIELD	100% BETA	100% BETA	CONT. RAD. ZONE C1	PAGE 9 & 10	SUPP.				
		T.I.D.	11.15 EG	124.7 E7		SRS TAB E	REVIEW				
SPECIFICATIONS: W.E. SPEC. 953397		AGE			110 CFR 50	TEST REPORT	COMB. TYPE				SAFETY FUNCTION:
REV. 0 DMS. 43257, RT		INST LIFE	40 YEARS	23 YEARS	PARAGRAPH 50.51	SECT. 7.0	TEST &				SEE TAB B OF ESE-G
NO. 1265762 CND # 1187		(PER 323-1974 DEF.)				PAGE 17	SUPP.				
PLANT LOC. 1 CB. 21		SURMERGED	228.3	N/A	FSAR SECTION	SRS TAB E	REVIEW				
COORDINATES X=1515.0 Y=1716.0 Z=236.0					13.6	PAGE 1A	N/A				AUTH. REFERENCE: M.J.H.
INSTALL (Y/N):		PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:						QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-G	
INSTALL. NEP: BY FIELD		OPERABILITY	O ESE-G	REFERENCES: FLOW DIAG. 2165 G802						REVISION # : 0 DATE : 16-18-84 SYSTEM : REACTOR COOLANT TAG : TE-IRC 0431B	
QUALIF EXEMPT: N/A		TEMPERATURE	T								
QUALIF: QUALIFIED		PRESSURE	P								
STATUS WITHOUT EXCEPTION		REL. HUMIDTY	H								
		CHEM. SPRAY	C								
MYS DNG NEFCAR 2165 G163		RADIATION	R								
MYS DNG LUC: TOTAL EQPT. LIST		AGING	A								
COUNTING		SURMERGENCE	S								
DOC. LUC: W.P.O. 265762		SAR ENV CAT:									
		10500 CATEG.:	A								
		APPENDIX E									

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		H/M/OUTS	
PARAMETER		ACTUAL	DESIGN	QUALIFIED	ACTUAL	DESIGN	QUALIFIED	METHOD	ITEMS
EQUIPMENT NO: TE-IRC 0431C		OPERABILITY	40 YEARS	23 YEARS	OPERABILITY	TEST REPORT	COMB. TYPE		ACCEL TIME: 264 HOURS
EQUIPMENT: SENSOR		ITY	NORMAL	NORMAL	REVIEW	SECT. 7.0	TEST &		
TYPE		NORM/TEST	1 YEAR	16.52 MO		PAGE 17	SUPP.	NONE	
COMPONENT: TEMP. ELEMENT		DBA	POST DBA	POST DBA		SRS TAB E	REVIEW		ACCEL TEMP: 400°F
MANUFACTURER: TRJF		TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT	COMB. TYPE		
JOB: WESTINGHOUSE		URE	FSAR FIG.	19.4.0-1	SECT. 5.1	TEST &	H	NONE	REPLACEMENT: 23 YEARS
SUPPLIER		DBA	3.11.4-1 FOR	420°F DBA	FSAR FIG.	PAGE 10	SUPP.		
MODEL AND: 21204		PRESSURE	ATMOS. NORM.	ATMOS. NORM	3.11.4-1	SRS TAB E	REVIEW		MAINTAIN.
SERIAL #: 229		DBA	3.11.8-1 FOR	81PSIA DBA	FIG.	PAGE 14	SUPP.	H	SUBCOMPONENTS:
DIRECT USE: REACTOR COOLANT		RELATIVE HUMIDITY	40% NORM.	100% NORM.	3.11.6-1 (DBA)	SRS TAB E	REVIEW		
SERVICE: DIFF. TEMP. - TEMP. AVG. CONTROL		PH	8.5-11.0	10.7	1025°C	PAGE 76 OF 96			
CUM. SPEC: N/A		CHEMICAL SPRAY	2000-2100 PPM BOREN	2750 PPM BOREN	FSAR SECT. 3.11.5.1	TEST REPORT	COMB. TYPE		
CUM. DEM.: N/A		PH	8.5-11.0	10.7	1025°C	SECT. 5.7	TEST &	H	NONE
SPECIFICATIONS: W.E. SPEC. 95337		R GAMMA	1.1 EG	124.7 E7 GAMMA	FSAR APP. 3.11B-21	PAGE 14	SUPP.		
DWG. 43257.R7		A BETA	1.7 E7	11.7 E7 BETA	CONT. RAD. ZONE C1	SRS TAB E	REVIEW	H	NONE
DWG. 265762 CHD # 1187		D SHIELD	100% BETA	100% BETA	FSAR SECT. 3.11.4.3 (DBA)	PAGE 14	SUPP.		
INST LOC. 1CB. 21		T.I.D.	EG	124.7 E7	10 CFR 50 PARAGRAPH 50.51	SRS TAB E	REVIEW		SAFETY FUNCTION: SECT TAB B OF ESE-6
COORDINATES X= 1513.0		AGE			110 CFR 50 PARAGRAPH 50.51	PAGE 17	SUPP.		
Y= 1724.0		INST LIFE (PER 32-1974 DEF.)	40 YEARS	23 YEARS	FSAR SECTION 3.6	SRS TAB E	REVIEW		
Z= 236.0		BURNED	228.3	N/A	N/A	PAGE 1A			AUTH. REFERENCE: M.J.H.
INSTALLED (Y/II):		YES							
INST. NEFT BY FIELD		OTHER EQUIPMENT THIS CES APPLIES TO:							
IF EXEMPT: N/A		OPERABILITY	O	ESE-6	REFERENCES: FLOW DIAG. 2165 G 802				
LIFT QUALIFIED		TEMPERATURE	T		REVISION # 10				
US WITHOUT EXCEPTION		PRESSURE	P		DATE 16-18-84				
DNG NEFCAR 2165 G 163		REL. HUMIDTY	H		SYSTEM: REACTOR COOLANT				
DNG LUCI TOTAL EQPT. LIST		CHEM. SPRAY	C		TAG: TE-IRC 0431C				
DNG LUCI W.P.O. 265762		RADIATION	R						
		AGING	A						
		SURMERGENCE	S						
		FSAR ENV CAT	A						
		19588 CATEG.	A						
		APPENDIX E							



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION METHOD	H/M/OUTS ITEMS	
	PARAMETER	ACTUAL	DESIGN	QUALIFIED			
TAG NO: TE-IRC 0432A	OPERABILITY	40 YEARS	23 YEARS	TEST REPORT	COMB TYPE	ACCEL TIME: 264 HOURS	
	ITY	NORMAL	NORMAL	SECTION 7.0	TEST &		
EQUIPMENT: SENSOR TYPE	NORM/TEST	1 YEAR	16.52 MO.	PAGE 17	SUPP.	NONE	
	DBA	POST DBA	POST DBA	SRS TAB E	REVIEW		
COMPONENT: TEMP. ELEMENT	TEMPERATURE	120°F NORM	122°F NORM	IF THRU 4F	REVIEW	ACCEL TEMP: 400°F	
	FSAR TABLE	FSAR FIG. 3.11.4-1 FOR 1 DBA	420°F DBA	19.4.0-1 FSAR FIG. 3.11.4-1	TEST REPORT SECTION 5.1 PAGE 10 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	H NONE REPLACEMENT: 23 YEARS
MANUFACTURER: TRF	PRESSURE	ATMOS. NORM	ATMOS. NORM	P. 76 OF 96	TEST REPORT	COMB TYPE	MAINTAIN. SUBCOMPONENTS:
	FSAR FIG. 3.11.8-1 FOR 1 DBA	81 PSIA DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)	TEST REPORT SECTION 5.7 PAGE 14 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	H NONE	
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE	TEST REPORT	COMB TYPE	SUBCOMPONENTS:
	100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	TEST REPORT SECTION 5.7 PAGE 14 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	H NONE	
MODEL AND SERIAL: 21204 230	CHEMICAL SPRAY	2000-2100 PPM BORON	2750 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT	COMB TYPE	SUBCOMPONENTS:
	PH 8.5-11.0	PH 10.7	PH 10.7	FSAR APP. 3.11B-21	TEST REPORT SECTION 5.3 PAGE 9 & 10 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
UNIQUE: REACTOR COOLANT, SERVICE LOOP C PROTECTION	R GAMMA	1.2 EG	12.7 E7 GAMMA	FSAR APP. 3.11B-21	TEST REPORT	COMB TYPE	SUBCOMPONENTS:
	A BETA	3.4 E7	41.7 E7 BETA	CONT. RAD. ZONE CS	TEST REPORT SECTION 5.3 PAGE 9 & 10 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
SPEC. DIFF. TEMP. - TEMP. AVG	Y.I.D.	4.7 EG	12.7 E7	FSAR APP. 3.11B-21	TEST REPORT	COMB TYPE	SUBCOMPONENTS:
	AGE-INST LIFE	40 YEARS	23 YEARS	FSAR APP. 3.11B-21	TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
EQUIP. SPEC: N/A	SUBMERGED	228.3	N/A	FSAR SECTION 13.6	TEST REPORT	COMB TYPE	AUTH. REFERENCE: M. J. H.
	YES			N/A	SRS TAB E	N/A	
EQUIP. DEN.: N/A	OPERABILITY			10 CFR 50 PARAGRAPH 50.51	TEST REPORT	COMB TYPE	AUTH. REFERENCE: M. J. H.
	TEMPERATURE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
SPECIFICATIONS: SPEC. 95337	OPERABILITY			OTHER EQUIPMENT THIS CES APPLIES TO:	TEST REPORT	COMB TYPE	AUTH. REFERENCE: M. J. H.
	PRESSURE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
Dwg. 43257, RT 0 01265762 CND # 1192	REL. HUMIDITY			REFERENCES: FLOW DIAG. 2165 G 802	TEST REPORT	COMB TYPE	AUTH. REFERENCE: M. J. H.
	CHEM. SPRAY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
ANY LOC. ICB. 31	RADIATION				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	AGING				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
COORDINATES X=1516.0 Y=1718.0 Z=257.0	SUBMERGENCE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	ISAR ENV CAT: 10588 CATEG. A APPENDIX E				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
INSTALL (Y/II):	OPERABILITY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	TEMPERATURE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
INST. KEPT BY FIELD	PRESSURE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	REL. HUMIDITY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
LIFE EXEMPT: N/A	CHEM. SPRAY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	RADIATION				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
QUALIFIED	SUBMERGENCE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	ISAR ENV CAT: 10588 CATEG. A APPENDIX E				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
WITHOUT EXCEPTION	OPERABILITY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	TEMPERATURE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
Dwg. 2165 G 163	PRESSURE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	REL. HUMIDITY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
Dwg. LUCI TOTAL EQPT. LIST	CHEM. SPRAY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	RADIATION				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
UNTING	SUBMERGENCE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	ISAR ENV CAT: 10588 CATEG. A APPENDIX E				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
DUC. LUCI: P.O. 265762	OPERABILITY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	TEMPERATURE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
SYSTEM: REACTOR COOLANT	PRESSURE				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	REL. HUMIDITY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	
TAG: TE-IRC 0432A	CHEM. SPRAY				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	AUTH. REFERENCE: M. J. H.
	RADIATION				TEST REPORT SECTION 7.0 PAGE 17 SRS TAB E	COMB TYPE TEST & SUPP. REVIEW	

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE ESE-G
 REVISION # 10
 DATE 10-18-84
 SYSTEM: REACTOR COOLANT
 TAG: TE-IRC 0432A

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M UITS	ITEMS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
AB NO: TE-IRC 0432B	OPERABILITY	40 YEARS	23 YEARS	10 YEARS	TEST REPORT	COMB. TYPE	ACCEL TIME: 264 HOURS
	ITY	NORMAL	NORMAL	REVIEW	SECT. 7.0	TEST &	
	NORM/TEST	1 YEAR	16.52 MO.		PAGE 17	SUPP.	NONE
EQUIPMENT: SENSOR	DBA	POST DBA	POST DBA		SRS TAB E	REVIEW	ACCEL TEMP: 400°F
	TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT	COMB. TYPE	
COMPONENT: TEMP. ELEMENT	URE	FSAR FIG. 3.11.4-1 FOR DBA	420°F DBA	19.4.0-1 FSAR FIG. 3.11.4-1	SECT. 5.1	TEST & SUPP.	H NONE
MANUFACTURER: Rdf	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	PAGE 10	REVIEW	REPLACEMENT: 23 YEARS
		FSAR FIG. 3.11.8-1 FOR DBA	81PSIA DBA	13.11.6-1 (DBA)	SRS TAB E	REVIEW	MAINTAIN.
JOB: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM.	100% NORM.	FSAR TABLE	TEST REPORT	COMB. TYPE	
APPLIC: 21204		100% DBA	100% DBA	19.4.0-1 NORM	SECT. 5.7	TEST & SUPP.	H NONE
MODEL AND: 21204				FSAR SECT. 3.11.4.3 (DBA)	PAGE 14	REVIEW	
SERIAL #: 231	CHEMICAL SPRAY	2000-2100 PPM BORON	2750 PPM BORON	FSAR SECT. 3.11.5.1	SRS TAB E	REVIEW	
TEST USE: REACTOR COOLANT LOOP C DIFF. TEMP. SERVICE TEMP. AVG. PROTECTION		PH 8.5-11.0	PH 10.7 @ 25°C		PAGE 14	REVIEW	
	R GAMMA	1.2 EG	124.7 ET GAMMA	FSAR APP. 3.11B-21	TEST REPORT	COMB. TYPE	
	A BETA	3.4 E7	91.7 ET BETA	CONT. RAD. ZONE CS	SECT. 5.3	TEST & SUPP.	H NONE
	D SHIELD	100% BETA	100% BETA		PAGE 9 & 10	REVIEW	
	T.I.D.	14.7 EG	124.7 ET		SRS TAB E	REVIEW	
SPECIFICATIONS: W.E. SPEC. 95337	INST LIFE	40 YEARS	23 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT	COMB. TYPE	SAFETY FUNCTION: SEE TAB B OF ESE-G
DWG. # 265762					SECT. 7.0	TEST & SUPP.	
INST LOC: 1CB.31	SURMERGED	228.3	N/A	FSAR SECTION 13.6	PAGE 17	REVIEW	
		YES			SRS TAB E	REVIEW	
COORDINATES X=1517.0 Y=1719.0 Z=257.0					PAGE 1A	REVIEW	AUTH. REFERENCE: M. J. H.
INSTALLED (Y/H):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-G
INST. NEPT BY FIELD	OPERABILITY	O ESE-G					
IF EXEMPT: N/A	TEMPERATURE	T					
LIFE QUALIFIED	PRESSURE	P					
US WITHOUT EXCEPTION	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
DWG. REF: CAR 2165 G163	AGING	A					
DWG. LUC: TOTAL EQPT. LIST	SURMERGENCE	S					
AGING	FSAR ENV. CAT: 19588 CATEG. A	A					
DUC. LUC: W.P.O. 265762	APPENDIX E						
			REFERENCES: FLOW DIAG. 2165 G802				
							REVISION # 10
							DATE 16-18-84
							SYSTEM: REACTOR COOLANT
							TAG: TE-IRC 0432B

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION		H/WI OUTS ITEMS
	PARAMETER	ACTUAL	DESIGN	QUALIFIED	ACTUAL	DESIGN	
TE-IRC 0432C	OPERABILITY	40 YEARS	23 YEARS	OPERABILITY TEST REPORT	SECT. 7.0	COMB TYPE	ACCEL TIME: 264 HOURS
TEMPERATURE	TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	SECT. 5.1	TEST & SUPP.	ACCEL TEMP: 400°F
	FSAR FIG.	3.11.4-1 FOR DBA	420°F DBA	FSAR FIG.	3.11.4-1	REVIEW	REPLACEMENT: 23 YEARS
PRESSURE	ATMOS. NORM.	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT.	3.11.6 NORM.	TEST & SUPP.	MAINTAIN.
	FSAR FIG.	3.11.8-1 FOR DBA	81 PSI DBA	FSAR FIG.	3.11.6-1 (DBA)	REVIEW	SUBCOMPONENTS:
RELATIVE HUMIDITY	RELATIVE HUMIDITY	40% NORM.	100% NORM.	FSAR TABLE	SECT. 5.7	TEST & SUPP.	
		100% DBA	100% DBA	FSAR SECT.	3.11.4.3 (DBA)	REVIEW	
CHEMICAL SPRAY	CHEMICAL SPRAY	2000-2100 PPM BOREN	2750 PPM BOREN	FSAR SECT.	3.11.5.1	TEST & SUPP.	
		PH 8.5-11.0	PH 10.7			REVIEW	
RADIATION	RADIATION	1.2 EG	124.7 EG	FSAR APP.	3.11.B-21	TEST & SUPP.	
	BETA SHIELD	100% BETA	100% BETA	CONT. RAD. ZONE CS		REVIEW	
INST LIFE	INST LIFE	40 YEARS	23 YEARS	10 CFR 50 PARAGRAPH	50.51	TEST & SUPP.	SAFETY FUNCTION: SEE TAB B OF ESE-G
						REVIEW	
SURMERGED	SURMERGED	228.3	N/A	FSAR SECTION	13.6	N/A	AUTH. REFERENCE: M.J.H.
		YES	N/A				
OTHER EQUIPMENT THIS CES APPLIES TO:							
REFERENCES: FLOW DIAG. 2165 G 802							
QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-G							
REVISION # 10 DATE 1-6-84							
SYSTEM: REACTOR COOLANT							
TAG: TE-IRC 0432C							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M/OUTS ITEMS		
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: TE-IRC 0433	OPERABILITY	40 YEARS	20 YEARS	OPERABILITY	TEST REPORT SECT. 7.0	COMB. TYPE		ACCEL TIME: 264 HOURS
EQUIPMENT: SENSOR TYPE	NORM/TEST DBA	1 YEAR	6.52 MO.	REVIEW	PAGE 16	TEST & SUPP.	NONE	ACCEL TEMP: 400°F
COMPONENT: TEMP. ELEMENT	TEMPERATURE	120°F NORM	122°F NORM	FSAR TABLE	TEST REPORT SECT. 5.1	COMB. TYPE		REPLACEMENT: 20 YEARS
MANUFACTURER: R/F	FSAR FIG. 3.11.4-1 FOR DBA		420°F DBA	FSAR FIG. 3.11.4-1	PAGE 9	TEST & SUPP.	H NONE	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM.	TEST REPORT SECT. 5.6	COMB. TYPE		SUBCOMPONENTS:
MODEL AND SERIAL: 21205 218	FSAR FIG. 3.11.8-1 FOR DBA		81 PSIA DBA	FIG. 3.11.6-1 (DBA)	PAGE 12 & 13	TEST & SUPP.	H NONE	
FUNCTION: REACTOR COOLANT LOOP 3 HOT LEG	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 5.4	COMB. TYPE		
		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	PAGE 12 & 13	TEST & SUPP.	H NONE	
	CHEMICAL SPRAY	2000-2100 PPM BORON	2750 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 5.6	COMB. TYPE		
		PH 8.5-11.0	PH 10.7		PAGE 12 & 13	TEST & SUPP.	H NONE	
ACCUM. SPEC: N/A			1025°C		SRS TAB E	REVIEW		
ACCUM. DEM.: N/A	R GAMMA	1.2 E6	24.7 GAMMA	FSAR APP 3.11.8-21	TEST REPORT SECT. 5.3	COMB. TYPE		
	A BETA	3.4 E7	191.27 BETA	CONT. RAD. ZONE CS	PAGE 9 & 10	TEST & SUPP.	H NONE	
	D SHIELD	100% BETA	100% BETA		SRS TAB E	REVIEW		
	T.I.D.	4.7 E6	24.7 E7		P. 28 THRU 78	REVIEW		
SPECIFICATIONS: INE. SPEC. 953337R0 DWG. 4325816	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS	20 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.0	COMB. TYPE		SAFETY FUNCTIONS: SEE TAB 8 OF ESE-5
P.O. # 265762 END # 15N 183					PAGE 16	TEST & SUPP.	NONE	
PLANT LOC.: C.B. 31					SRS TAB E	REVIEW		
COORDINATES X= 1517.0 Y= 1719.0 Z= 255.0	SUBMERGED	228.3	N/A	FSAR SECTION 13.6	N/A	COMB. TYPE		
		YES			SRS TAB E	TEST & SUPP.	NONE	AUTH. REFERENCE: M. J. H.
INSTALLED (Y/N): BY FIELD	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-5	
QUALIF EXEMPT: N/A	OPERABILITY	O ESE-5	REFERENCES: FLOW DIAG. CAP-2165 G 800					
QUALIF STATUS: QUALIFIED WITHOUT EXCEPTION	TEMPERATURE	T						
	PRESSURE	P						
	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
PHYS DWG REF: CAR-2165 G 163	RADIATION	R						
PHYS DWG LOC: TOTAL EQUIP. LIST	AGING	A						
MOUNTING	SUBMERGENCE	S						
EQ. DOC. LOC: W P.O. 265762	FSAR ENV CAT: 10500 CATEG. A	A					REVISION # : 0	
	APPENDIX E						DATE: 16-18-84	
							SYSTEM: REACTOR COOLANT	
							TAG: TE-IRC 0433	

AVE: EBAS
UTILITY: L

FACILITY: SHEARON HALL
COMPONENT EVALUATION

ISSUE: WESTINGHOUSE - PWR
CAPACITY: 900 MW(E)

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL			
TAG NO: FT-IRC 434	OPERABILITY	40 YEARS NORMAL		OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT TYPE: SENSOR	NORM/TEST DBA	1 YEAR POST DBA					ACCEL TEMP
COMPONENT: FLOW TRANSMITTER	TEMPERATURE	120° F NORM FSAR FIG. 3.11.4-1 FOR DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		/	REPLACEMENT
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA		FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1 (DBA)		/	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		/	SUBCOMPONENTS
MODEL AND SERIAL: 752 4780	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1		/	
FUNCTIONS: REACTOR COOLANT & SERVICE	R GAMMA A BETA D SHIELD	1.2 EG 3.3 EG T.I.D.		FSAR APP. 3.11.8-18 CONT. RAD. ZONE C3		/	
ACCUR. SPEC: N/A	AGE - INST LIFE	40 YEARS (PER 323-1979 DEF.)		10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION
ACCUR. DEM.: N/A	SUBMERGED	228.3		FSAR SECTION		/	AUTH. REFERENCE
SPECIFICATIONS: N. PROJ. SPEC. 953328, R3 955270, R0							
P.O. # 144524 CND # 15K0095							
PLANT LOC.: C.B.							
COORDINATES X=1531.0 Y=1736.0 Z=236.0							

QUALIF EXEMPTN:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
*****	OPERABILITY	O		
*****	TEMPERATURE	T		
*****	PRESSURE	P		
*****	REL. HUMIDTY	H		
*****	CHEM. SPRAY	C		
*****	RADIATION	R		
*****	AGING	A		
*****	SUBMERGENCE	S		
*****	FSAR ENV CAT			
*****	FSAR CATEG.			
*****	APPENDIX E			

REFERENCES:

REVISION # :
DATE :
SYSTEM : REACTOR COOLANT
TAG : FT-IRC 434

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/H	OUTS	
PARAMETER ACTUAL		DEN. QUALIF.		ACTUAL DEN. QUALIF.				ITEMS	
TAG NO : FT-IRC 435		OPERABILITY	40 YEARS			OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT : SENSOR		NORM/TEST	1 YEAR						ACCEL TEMP
TYPE : FLOW TRANSMITTER		DBA	POST DBA						REPLACEMENT
MOUNTING : BARTON		TEMPERATURE	120° F NORM			FSAR TABLE 9.4.0-1			MAINTENANCE
MAJOR SUPPLIER : WESTINGHOUSE		URE	FSAR FIG. 3.11.4-1			FSAR FIG. 3.11.4-1			SUBCOMPONENTS
MODEL AND SERIAL : 752 4781		FOR DBA							
FUNCTION : REACTOR COOLANT & SERVICE		PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1			FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)			
ACCUR. SPEC : N/A		RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)			
ACCUR. DEN. : N/A		CHEMICAL SPRAY	2000-2100 PH 8.5-11.0			FSAR SECT. 3.11.5.1			
SPECIFICATIONS : 955270, R0		R GAMMA	1.2 EG			FSAR APP. 3.11.8-18			SAFETY FUNCTION
P.O. # : 414524 CHD # 15M 0195		A BETA	3.3 E7			CONT. RAD. ZONE C3			
PLANT LOC. : C.B.		D SHIELD	T.I.D.						
COORDINATES X-1536.0 Y-1730.0 Z-236.0		AGE-INSTR LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51			
INSTALLED (Y/N) :		(PER 323-1974 DEF.)							
INSTALL. REF :		SURMERGED	228.3			FSAR SECTION			AUTH. REFERENCE
QUALIF EXEMPT :									
QUALIFI :		PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO :				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE :	
STATUS :		OPERABILITY	O	REFERENCES: FLOW DIAG. GAR: 2165 G 800					
		TEMPERATURE	T						
		PRESSURE	P						
		REL. HUMIDTY	H						
		CHEM. SPRAY	C						
		RADIATION	R						
PHYS DMG REF : CAR-2166 G 451		AGING	A					REVISION # :	
PHYS DMG LUCI : TOTAL EQUIP. LIST		SURMERGENCE	S					DATE :	
MOUNTING :								SYSTEM : REACTOR COOLANT	
EQ. DUC. LUCI :		FSAR ENV CAT :						TAG : FT-IRC 435	
		1958 CATEG. :							
		APPENDIX E :							

EQUIP. DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL DEH. QUALIF.			
TAG NO: FT-IRC 436	OPERABILITY	40 YEARS		OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT: SENSOR TYPE	NDRH/TEST DBA	1 YEAR POST DBA					ACCEL TEMP
COMPONENT: FLOW TRANSMITTER	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		/	REPLACEMENT
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA		FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1(DBA)		/	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3(DBA)		/	SUBCOMPONENTS
FUNCTIONS: REACTOR COOLANT & SERVICE	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1		/	
ACCUM. SPEC: N/A	R GAMMA	1.2 EG		FSAR APP. 3.11.8-18		/	
ACCUM. DEH.: N/A	A BETA	3.3 E7		CONT. RAD. ZONE C		/	
SPECIFICATIONS: N. PROJ. SPEC. 953328, R3 955270, R0	AGE - INST LIFE	40 YEARS		10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION
P.O. # 414524 CHD # 15K#0196	SUBMERGED	228.3		FSAR SECTION		/	
PLANT LOC.: C.B.							AUTH. REFERENCE
COORDINATES X=1544.0 Y=1723.0 Z=236.0							
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTAL. REF:	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 9800				
QUALIF EXEMPTING:	TEMPERATURE	T					
QUALIF:	PRESSURE	P					
STATUS:	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R				REVISION # :	
PHYS DNG REF: CAR-2166 6451	AGING	A				DATE :	
PHYS DNG LOC: TOTAL EQUIP. LIST	SUBMERGENCE	S				SYSTEM: REACTOR COOLANT	
MOUNTING:							
EQ. DOC. LOC:	FSAR ENV CAT:						
	OS88 CATEG.:						
	APPENDIX E:					TAG ... FT-IRC 436	

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M/OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL		
AG NO: PT-IRC-455	OPERABIL-ITY	40 YEARS	10 YEARS	OPERABILITY REVIEW	TEST REPORT SECT. 7.0 PAGE 18 & 19	ACCEL TIME: 1673 HRS.
EQUIPMENT: SENSOR	NDIRH/TEST DBA	1 YEAR	6.525 MO.		ISRS TAB E PAGE 1 INBLS	ACCEL TEMP: 125°C
COMPONENT: PRESS. TRANSMITTER	TEMPERATURE	120°F NORM.	120°F NORM.	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	REPLACEMENT: 5.99 YRS.
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 PAGE 14	MAINTAIN: O-RINGS REPLACED AT 1 YR. CONNECTORS AT 5 YRS. SUBCOMPONENTS: O-RINGS CONNECTORS
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 5.4 PAGE 14	
MODEL AND SERIAL # 763 581	CHEMICAL SPRAY	2000-2100 PPM BORON	2000-2100 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 PAGE 17	
FUNCTIONS: PRESSURIZER SERVICE PRESS.	R GAMMA A BETA SHIELD	1.2 EG	5.0 E7	FSAR APP. 3.11B-20 CONT. RAD. ZONE C3	TEST REPORT SECT. 5.2 PAGE 11	
ACCUM. SPEC: N/A	T.I.D.	1.2 EG	68 E7		SRS PAGE 1A THRU 3A	
ACCUM. DEM: N/A	AGE-INST LIFE	40 YEARS	5.99 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 PAGE 21	SAFETY FUNCTIONS: SEC TAB B ESE-1A
SPECIFICATIONS: 87GSDAG, R3	SURGE	228.3	N/A	FSAR SECTION 3.6	SRS PAGE 3D TAB K	
COORDINATES X=1456.0 Y=1653.0 Z=236.0	INSTALL (Y/N): LATER				SRS PAGE 1E TAB E	AUTH. REFERENCE: M.J.H.
PLANT LOC: C.B.21	QUALIF EXEMPT: NO			OTHER EQUIPMENT THIS CES APPLIES TO: N/A		QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-1A
UNINSTALLED (Y/N): LATER	OPERABILITY					
INSTALL. REF: 117E5	TEMPERATURE					
QUALIF NOT QUALIF. REQUIRES MAJOR ANALYSIS	PRESSURE					
	REL. HUMIDTY					
	CHEM. SPRAY					
	RADIATION					
	AGING					
	SURGE					
PHYS DNG REF: CAR-2166 G-450	ISAR ENV CAT: A					REVISION # 10
PHYS DNG LUCI TOTAL EQUIP LIST	1958A CATEG. 1					DATE: 12-29-84
MOUNTING	APPENDIX F, CATEG A					SYSTEM (REACTOR COOLANT)
U.D.C. LUCI w P.O. 407118						TAG: 1PT-IRC-455

REFERENCES:
FLOW DIAG. CAR-2165 9801
TEST REPORT EOIA 1R1
EQUIP QUAL. DATA PKG. ESE-1A, R3

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	ACTUAL	DEM. QUALIF.	DOCUMENTATION ACTUAL	DEM. QUALIF.	QUALIF. METHOD	N/A	UNITS	ITEMS
G NO: PT-IRC 456	OPERABILITY	40 YEARS	10 YEARS	TEST REPORT SECT. 7.0	OPERABILITY REVIEW	COMB. TYPE TEST			ACCEL TIME: 1673 HRS.
	NORM/TEST	1 YEAR	6.523 MO.	PAGE 18 & 19				NONE	
EQUIPMENT: SENSOR	TEMPERATURE	120° F NORM	120° F NORM	SRS TABLE PAGE 18 THRU 19		REVIEW			ACCEL TEMP: 125° C
EQUIPMENT: PRESS. TRANSMITTER	TEMPERATURE	FSAR FIG. 3.11.4-1 FOR DBA	420° F DBA	TEST REPORT SECT. 5.1 PAGE 7 (10)	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1	COMB. TYPE TEST	H/		REPLACEMENT: 5.99 YRS.
EQUIPMENT: PRESS. TRANSMITTER	PRESSURE	ATMOS. NORM	ATMOS. NORM	SRS TABLE PAGE 18 THRU 19		REVIEW			MAINTAIN. O-RINGS REPLACED AT 1 YR.
EQUIPMENT: PRESS. TRANSMITTER	PRESSURE	FSAR FIG. 3.11.8-1 FOR DBA	75 PSIA DBA	TEST REPORT SECT. 5.4 PAGE 14	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)	COMB. TYPE TEST	H/	NONE	CONNECTORS AT 5 YRS. SUBCOMPONENTS O-RINGS CONNECTORS
EQUIPMENT: PRESS. TRANSMITTER	RELATIVE HUMIDITY	40% NORM	100% NORM	SRS TABLE PAGE 3 C		REVIEW			
EQUIPMENT: PRESS. TRANSMITTER	RELATIVE HUMIDITY	100% DBA	100% DBA	TEST REPORT SECT. 5.4 PAGE 14	FSAR SECT. 3.11.4.3 (DBA)	COMB. TYPE TEST	H/	NONE	
EQUIPMENT: PRESS. TRANSMITTER	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0	2000-2100 PPM BORON PH 8.5-11.0	SRS TABLE PAGE 3 C		REVIEW			
EQUIPMENT: PRESS. TRANSMITTER	RADIATION	1.2 E6	5.0 E7	TEST REPORT SECT. 6.4 PAGE 17	FSAR APP. 3.11.5.1	COMB. TYPE TEST	H/	NONE	
EQUIPMENT: PRESS. TRANSMITTER	RADIATION	3.3 E7	90 E7	SRS TABLE PAGE 6 C		REVIEW			
EQUIPMENT: PRESS. TRANSMITTER	RADIATION	100% BETA	68 E7	TEST REPORT SECT. 5.2 PAGE 11	CONT. RAD. ZONE C3	COMB. TYPE TEST	H/	NONE	
EQUIPMENT: PRESS. TRANSMITTER	RADIATION	T.I.D. 1.2 E6	68 E7	SRS TABLE PAGE 1A THRU 3A		REVIEW			
EQUIPMENT: PRESS. TRANSMITTER	AGE - INST LIFE	40 YEARS	5.99 YEARS	TEST REPORT SECT. 7.5 PAGE 21	10 CFR 50 PARAGRAPH 50.51	COMB. TYPE TEST		NONE	SAFETY FUNCTION: SEE TAB "B" ESE-1A
EQUIPMENT: PRESS. TRANSMITTER	SURMERGED	228.3	N/A	SRS TABLE PAGE 3 B		REVIEW			
EQUIPMENT: PRESS. TRANSMITTER	SURMERGED	228.3	N/A	TEST REPORT SECT. 7.5 PAGE 21	FSAR SECTION 3.6	COMB. TYPE TEST		NONE	
EQUIPMENT: PRESS. TRANSMITTER	SURMERGED	228.3	N/A	SRS TABLE PAGE 1E		REVIEW			AUTH. REFERENCE: M.J. H.

MANUFACTURER: BARTON
 MAJOR SUPPLIER: WESTINGHOUSE
 MODEL AND SERIAL: 763 582
 DIRECT USE: PRESSURIZER SERVICE PRESSURE
 EQUIPMENT SPEC: N/A
 EQUIPMENT DEM. 1 N/A
 MAJOR SPEC: 953328, R1
 N.E. SPEC. DWG: 8765246, P3
 SPECIFICATIONS: 8765246, P3
 ID # 907118 CMD # 15H 148
 PLANT LOC: C.B.
 COORDINATES X=1490.0 Y=1648.0 Z=236.0
 INSTALLED (Y/N): LATER
 INSTAL. REF: LATER
 QUALIF EXEMPT: NO
 QUALIF NOT QUALIF REQUIRES MAJOR ANALYSIS
 STATUS
 SYS DWG REF: CAR-2166G 450 AGING
 SYS DWG LIC TOTAL EQUIP LIST
 DUNTING
 P.O.C. LOC: W.P.O. 407118

PARA-METER: OPERABILITY
 SUPPL. REVIEW: O ESE-1
 OTHER EQUIPMENT THIS CES APPLIES TO: N/A
 QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-1A
 REFERENCES:
 FLOW DIAG. CAR-2165 9801
 TEST REPORT EO1A, R1
 EQUIP. QURL. DATA TRG. ESE-1A, P3
 REVISION # 10
 DATE 12-29-84
 SYSTEM: REACTOR COOLANT
 TAG: PT-IRC 456



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		I. QUALIF. METHOD	II/M ITEMS	UTS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL DEM. QUALIF.			
NO PT-IRC 457	OPERABILITY	40 YEARS	10 YEARS	OPERABILITY	TEST REPORT COMB. TYPE TEST		ACCEL TIME: 1673 HRS.
COMPONENT: SENSOR	ITY	NORMAL	NORMAL	REVIEW	SECT. 7.0 PAGE 18 & 19	NONE	
	NOHM/TEST DBA	1 YEAR POST DBA	6.525 MO. POST DBA		SRS TAB E PAGE 18 THRU 58		ACCEL TEMP: 125 °C
COMPONENT: PRESS. TRANSMITTER	TEMPERATURE	120 °F NORM	120 °F NORM	FSAR TABLE 19.4.0-1	TEST REPORT COMB. TYPE TEST	NORM. SERVICE TEMP. SEE TAB K	REPLACEMENT: 5.99 YRS.
		FSAR FIG. 3.11.4-1 FOR DBA	420 °F DBA	FSAR FIG. 3.11.4-1	SECT. 5.1 PAGE 9 & 10	H/	
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM.	TEST REPORT COMB. TYPE TEST		MAINTAIN. O-RINGS REPLACED AT 1YR. CONNECTORS AT 5YRS. SUBCOMPONENTS: O-RINGS CONNECTORS
		FSAR FIG. 3.11.8-1 FOR DBA	75 PSIA DBA	FSAR FIG. 3.11.6-1 (DBA)	SECT. 5.4 PAGE 14	H/	NONE
JOB # 1 APPLIC: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM	TEST REPORT COMB. TYPE TEST		
DEL AND: 763 SERIAL # 583		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	SECT. 5.4 PAGE 14	H/	NONE
ACT. USE: PRESSURIZER SERVICE PRESSURE	CHEMICAL SPRAY	2000-2100 PPM BORON	2000-2100 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT COMB. TYPE TEST		
CUM. SPEC: N/A		PH 8.5-11.0	PH 8.5-11.0		SECT. 6.4 PAGE 17	H/	NONE
CUM. DEM: N/A M. PROJ. SPEC. 953328, R1 M. E. SPEC. DWG. 8765046, R3	R GAMMA	1.2 EG	5.0 E7	FSAR APP. 3.11.B-20	TEST REPORT COMB. TYPE TEST		
SPECIFICATIONS: 8765046, R3	A BETA	3.3 E7	9.0 E7	CONT. RAD. ZONE C3	SECT. 5.2 PAGE 11	H/	NONE
	D SHIELD	100% BETA	68 E7		SRS TAB E PAGE 1A THRU 3A		
U # 407118 CHD # 5H.2/48	AGE-INST LIFE (PER 323-1979 DEF.)	40 YEARS	5.99 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT COMB. TYPE TEST		SAFETY FUNCTIONS: SEE TAB B, ESE-1A
ANT LOC: C.B. 21	SURMERGED	228.3	N/A	FSAR SECTION 3.6	SECT. 7.5 PAGE 21		
COORDINATES X= 1490.0 Y= 1648.0 Z= 236.0		YES			SRS TAB E PAGE 3B		
INSTALLED (Y/N): STAL. REF: LATER LIF EXEMPT: NO	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-1A
QUALIF: NOT QUALIF. REQUIRES MAJOR ANALYSIS	OPERABILITY	O ESE-1	N/A				
YS DWG REF: CAR-2166 G450 YS DWG LIC: TOTAL EQUIP. LIST MOUNTING: WALL MOUNT	TEMPERATURE	T	REFERENCES: FLOW DIAG. CAR-2165 G 801 TEST REPORT, EOIA, R1 EQUIP. QUAL. DATA PKG. ESE 1A, R3				REVISION # 10
	PRESSURE	P				DATE 12-29-84	
DOC. LUC: W.P.O. 407118	REL. HUMIDTY	H					SYSTEM: REACTOR COOLANT
	CHEM. SPRAY	C					TAG: PT-IRC 457
	RADIATION	R					
	AGING	A					
	SURMERGENCE	S					
	FSAR ENV CAT: A						
	OSOR CATEG.:						
	APPENDIX F. CATEG. A						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS		
	PARAMETER	ACTUAL	DEM.	QUALIF.					ACTUAL
TAG NO: LT-IRC 460	OPERABIL-ITY	40 YEARS	16 YRS.	NORMAL	OPERABILITY TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE TEST & SUPP.		ACCEL TIME: 1673 HOURS	
EQUIPMENT SENSOR TYPE	NDHM/TEST DBA	1 YEAR	16.5 MO.	POST DBA	SRS TABLE PAGE 18 THRU 5B	REVIEW		ACCEL TEMP: 125 °C	
COMPONENT: LVL. XMTR.	TEMPERATURE	120 °F NORM	104 °F NORM.	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE TEST & SUPP.	H	NORM. SERV. TEMP. SECT. TAB	
MANUFACTURER: BARTON		FSAR FIG. 3.11.4-1 FOR DBA	420 °F DBA	FSAR FIG. 3.11.4-1	SRS TABLE 19.104.3B	REVIEW		REPLACEMENT: 5.99 YEARS	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP.	H	NONE	
		FSAR FIG. 3.11.8-1 FOR DBA	80 PSIA DBA	FSAR FIG. 3.11.6-1 (DBA)	SRS TABLE Pg. 3D	REVIEW		MAINTAIN. O-RINGS REPLACED 01 YR. CONNECTORS 05 YEARS SUBCOMPONENTS O-RINGS & CONNECTORS	
MODEL AND SERIAL: 764 1146	RELATIVE HUMIDITY	40% NORM.	100% DBA	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP.	H	NONE	
FUNCT. USE: PRESSURIZER LVL. & SERVICE				FSAR SECT. 3.11.4.3 (DBA)	SRS TABLE Pg. 3D	REVIEW			
ACCUM. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	COMB. TYPE TEST & SUPP.	H	NONE	
		PH 8.5-11.0	PH 10.7		SRS TABLE Pg. 4D	REVIEW			
ACCUM. DEM.: N/A	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11B-20	TEST REPORT SECT. 5.2 Pg. 10 & 11	COMB. TYPE TEST & SUPP.	H	NONE	
	A BETA	100% BETA	100% BETA	CONT. RAD. ZONE C 3	SRS TABLE Pg. 16, 2C & 3C	REVIEW			
SPECIFICATIONS: PROJECT SPEC. 9532B, R1 W.E. SPEC. DWG 8763D45, R 3	D SHIELD	1.2 EG							
P.O. # 407118 CND # 145	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS	5.99 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20	COMB. TYPE TEST & SUPP.		NONE	
PLANT LOC.: CB 21					SRS TABLE Pg. 1B THRU 5B	REVIEW		SAFETY FUNCTION: SEE ESE-8A, TAB 'B'	
COORDINATES X=1496.0 Y=1646.0 Z=236.0	SURMERGED	228.3	N/A	FSAR SECTION 13.6	N/A				
		YES			SRS TABLE Pg. 1E			NONE	
INSTALLED (Y/N):								AUTH. REFERENCE: M.J.H.	
INSTAL. KEPT BY FIELD	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-8A		
QUALIF EXEMPT: N/A	OPERABILITY	O ESE 3A							
QUALIF REQUIRES ANALYSIS STATUS	TEMPERATURE	T							
	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DWG KEPT CAR 2165 G451	AGING	A							
PHYS DWG LIC INSTRUMENT LIST MOUNTING	SURMERGENCE	S							
EQ. DUC. LUCI W/NO. 407118	FSAR ENV CAT: 10588 CATEG. 1	A	REFERENCES: FLOW DIAG. CAR 2165 G 801.				REVISION # 10 DATE 6-21-84		
	APPENDIX E						SYSTEM: REACTOR COOLANT TAG: LT-IRC 460		

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/N	OUTS ITEMS	ACCEL TIME	
	PARAMETER	ACTUAL	DEM.	QUALIF.					ACTUAL
TAG NO: LT-IRC 461	OPERABILITY	40 YEARS	16 YRS.	NORMAL	TEST REPORT SECT. 7.0 PAGE 17 THRU 20	COMB. TYPE TEST & SUPP. REVIEW	NONE	1673 HOURS	
EQUIPMENT SENSOR TYPE	NORM/TEST	1 YEAR	6.5 MO.		SRS TABLE PAGE 1B THRU 5B			ACCEL TEMP 125 °C	
COMPONENT: LVL. XMTR.	TEMPERATURE	120 °F NORM	104 °F NORM.	FSAR TABLE 19.4.0-1	TEST REPORT SECT. 5.1 PAGE 9 & 10	COMB. TYPE TEST & SUPP. REVIEW	H	REPLACEMENTS 5.99 YEARS	
MANUFACTURER: BARTON		FSAR FIG. 3.11.4-1 FOR DBA	420 °F DBA	FSAR FIG. 3.11.4-1	SRS TABLE PAGE 1D & 3B			MAINTAIN. O-RINGS REPLACED @ 1 YR. CONNECTORS @ 5 YEARS	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 13.11.6 NORM. FIG.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP. REVIEW	H	SUBCOMPONENTS O-RINGS & CONNECTORS	
		FSAR FIG. 3.11.8-1 FOR DBA	180 PSIA DBA	13.11.6-1 (DBA)	SRS TABLE Pg. 3D				
MODEL AND SERIAL: 764 1147	RELATIVE HUMIDITY	40% NORM.	100% DBA	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 5.4 Pg. 14	COMB. TYPE TEST & SUPP. REVIEW	H	NONE	
FUNCTION: PRESSURIZER LVL. & SERVICE				FSAR SECT. 3.11.4.3 (DBA)	SRS TABLE Pg. 3D				
	CHEMICAL SPRAY	2000-2100 PPM BORON	12500 PPM BORON	FSAR SECT. 13.11.5.1	TEST REPORT SECT. 6.4 Pg. 16	COMB. TYPE TEST & SUPP. REVIEW	H	NONE	
ACCUM. SPEC: N/A		PH 8.5-11.0	PH 10.7		SRS TABLE Pg. 4D				
ACCUM. DEM.: N/A	R GAMMA	1.2 EG	168.10 EG	FSAR FIG. 3.11B-20	TEST REPORT SECT. 5.2 Pg. 10 & 11	COMB. TYPE TEST & SUPP. REVIEW	H	NONE	
	A BETA	3.3 EG	174.38 EG	CONT. RAD. ZONE C3	SRS TABLE Pg. 1C, 2C & 3C				
	D SHIELD	100% BETA	100% BETA						
	T.I.D.	1.2 EG							
	AGE		5.99 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 7.5 Pg. 20	COMB. TYPE TEST & SUPP. REVIEW		SAFETY FUNCTION. SEE ESE-3A, TAB 'D'	
	INST LIFE (PER 323-1974 DEF.)	40 YEARS			SRS TABLE Pg. 1B THRU 5B				
	SURMERGED	228.3	N/A	FSAR SECTION 13.6	N/A	N/A	NONE	AUTH. REFERENCE M.J.H.	
		YES			SRS TABLE Pg. 1E				
INSTALL (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIED TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-3A		
INSTALL KEPT BY FIELD:	OPERABILITY	O ESE 3A	REFERENCES:				REVISION # 10		
QUALIF EXEMPT: N/A	TEMPERATURE	T	FLOW DIAG. CAR 2165 G801				DATE 16-21-84		
QUALIF REQUIRES ANALYSIS:	PRESSURE	P					SYSTEM: REACTOR COOLANT		
STATUS:	REL. HUMIDTY	H					TAG: LT-IRC 461		
	CHEM. SPRAY	C							
	RADIATION	R							
	AGING	A							
	SURMERGENCE	S							
PHYS DWG KEPT: CAR 2165 G451	FSAR ENV CAT: A								
PHYS DWG LOST: INSTRUMENT LIST	1958 CATEG: A								
MOUNTING:	APPENDIX E								
EQ. DOC. LOST: WTR. 407118									

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M/OUTS ITEMS		
	PARAMETER	ACTUAL	DES. QUALIF.	ACTUAL				DES. QUALIF.
TAG NO: <i>IRC-V526SN-1</i>	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6	TYPE TEST	ACCEL TIME: 15092 HOURS	
EQUIPMENT TYPE: <i>VALVE GATE</i>	NORM/TEST DBA	1 YEAR	1 YEAR		4.6 PAGE 11 & 25		ACCEL TEMP: 180°C	
COMPONENT: <i>MOTOR</i>	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 19.4.0-1	SRS TABLE PAGE 1C THRU 6C	COMB. TYPE TEST & SUPP. REVIEW	REPLACEMENT: 40 YEARS	
MANUFACTURE: <i>LIMITORQUE</i>	FSAR FIG. 3.11.4-1 FOR DBA		385°F DBA	3.11.4-1		H	NONE	
MAJOR SUPPLIER: <i>WESTHS.</i>	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. FIG.	REPORT 600456, PAGE 10E14	COMB. TYPE TEST & SUPP. REVIEW	H	NONE
MODEL AND SERIAL: <i>SZB-00 323-61</i>	FSAR FIG. 3.11.8-1 FOR DBA		70 PSIG DBA	3.11.6-1 (DBA)	SRS TABLE PAGE 2B		MAINTAIN.	
FUNCTION: <i>REACTOR COOLANT & SERVICE SERVING VALVE IRC-V526SN-1</i>	RELATIVE HUMIDITY	40% NORM	100% NORM.	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 4.4.3 PAGE 1B	COMB. TYPE TEST & SUPP. REVIEW	H	SEE TABLE PAGE 1E
		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	SRS TABLE PAGE 1E			
	CHEMICAL SPRAY	2000-2100 PPM BORON	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	H	NONE
ACCUM. SPEC: <i>N/A</i>		PH 8.5-11.0	PH 10.5-11.1		SRS TABLE PAGE 1D			
ACCUM. DES: <i>N/A</i>	H GAMMA	1.3 E7	130 EG	FSAR APP. 3.11.B-21	TEST REPORT SECT. 4.3 PAGE 12	COMB. TYPE TEST & SUPP. REVIEW	H	SEE TABLE PAGE 1G
SPECIFICATIONS: <i>W. PROJ. SPEC. 952065 05 W.E. SPEC. 678852 02</i>	A BETA	3.7 E8	74 EG	CONT. RAD. ZONE C6	SRS TABLE FIG THRU 3G			
P.O. # <i>173662</i> CHD # <i>15H.#0160</i>	D SHIELD	100% BETA	100% BETA					
PLANT LOC.: <i>C.B. 41</i>	Y.T.I.D.	1.3 E7	204 EG					
COORDINATES: <i>X-1484.0 Y-1666.0 Z-309.0</i>	AGE - INST LIFE	40 YEARS	456 YE	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SEC. 3.1.1 PAGE 3	COMB. TYPE TEST & SUPP. REVIEW		SEE TABLE PAGE 1F
	(PER 323-1979 U.F.)				SRS TABLE PAGE 1F THRU 3F			SAFETY FUNCTION: SEE TAB "B" OF HE-1
	SURVEILLANCE	228.3		FSAR SECTION 3.6	N/A			
		YES	N/A		SRS TABLE PAGE 1A	N/A	NONE	AUTH. REFERENCE: M.J.H.

INSTALLED (Y/N):
 INSTAL. REF: *BY FLD.*
 QUALIF. EXEMPT: *N/A*
 QUALIF. STATUS: *QUALIFIED, AWAITING CONFIRMATORY DATA*
 PHYS. DNG REF: *CAR-2165 G-147*
 PHYS. DNG LUC: *TOTL EQUIP. LIST*
 HOUSING:
 FU. DNG. LUC: *W. P.O. 173662*

PARAMETER	SUPPL. REVIEW
OPERABILITY	O HE-1
TEMPERATURE	T
PRESSURE	P
REL. HUMIDTY	H
CHEM. SPRAY	C
RADIATION	R
AGING	A
SURVEILLANCE	S
FSAR LHY CAT:	
19500 CATEG.:	A
APPENDIX F:	

OTHER EQUIPMENT THIS CES APPLIES TO:
 REFERENCES: *FLOW DIAG. CAR-2165 G-801 LIMITORQUE TEST REPORT 600456*

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1
 REVISION # *10*
 DATE: *4-21-84*
 SYSTEM: *REACTOR COOLANT*
 TAG: *IRC-V526SN-1*



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIFICATION METHOD	H/MI	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: 2RC-D528SA-1	OPERABILITY	40 YEARS NORMAL	OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT TYPE: VALVE DIAPH.	NORM/TEST DBA	1 YEAR POST DBA				ACCEL TEMP
COMPONENT: SOLENOID	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		H	REPLACEMENT
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)		H	MAINTAIN.
MAJOR SUPPLIER: GRINNELL	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		H	SUBCOMPONENTS
MODEL AND SERIAL #: FT 831654	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1		H	
FUNCTIONS & SERVICE: REACTOR COOLANT SERVING VALVE 2RC-D528SA-1	R GAMMA A BETA D SHIELD	1.2 EG 3.3 EG	FSAR APP. 3.11.8-18 CONT. RAD. ZONE C3		H	
ACCUR. SPEC: N/A	AGE-INST LIFE	40 YEARS (PER 323-1974 DEF.)	10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION
ACCUR. DEH.: N/A	SUBMERGED	228.3 YES	FSAR SECTION		N/A	AUTH. REFERENCE
SPECIFICATIONS: W. PROJ. SPEC. 952067.02 W.E. SPEC. 678745.01 P.O. # 191003 CND # SM#0170	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
P.U. # 191003	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-21659-801			
PLANT LOC.: C.B. 21	TEMPERATURE	T				
COORDINATES X-1508.0 Y-1639.0 Z-255.0	PRESSURE	P				
INSTALLED (Y/N):	REL. HUMIDTY	H				
INSTALL. REF: BY FLD.	CHEM. SPRAY	C				
QUALITY EXEMPT: N/A	RADIATION	R	REVISION #:			
QUALIF:	AGING	A	DATE:			
STATUS:	SUBMERGENCE	S	SYSTEM: REACTOR COOLANT			
PHYS DWG REF: CAR-21659-147	SAF ENV CAT: A		TAG: 2RC-D528SA-1			
PHYS DWG LOC: TOTAL EQUIP. LIST	OSHA CATEG:					
IDENTIFICATION: N/A	APPENDIX E:					
ED. DOC. LOC: 3.2						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIFICATION METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: 2RC-D5285A-1	OPERABILITY	40 YEARS	OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT TYPE: VALVE DIAPH.	NORM/TEST DBA	1 YEAR POST DBA				ACCEL TEMP
COMPONENTS: LIMIT SW.	TEMPERATURE	120° F NORM FSAR FIG. 3.11.4-1 FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		H	REPLACEMENT
MANUFACTURER: NAMCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)		H	MAINTAIN.
MAJOR SUPPLIER: GRINNELL	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		H	SUBCOMPONENTS
FUNCTION: REACTOR COOLANT & SERVICE SERVING VALVE 2RC-D5285A-1	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1		H	
ACCUR. SPEC: N/A	R GAMMA	1.266	FSAR APP 3.11.8-18		H	
ACCUR. DEH.: N/A	A BETA	3.367	CONT. RAD. ZONE C3		H	
SPECIFICATIONS: W. PROJ. SPEC. 952067.02 W.F. SPEC. 61774501	AGE-INST LIFE	40 YEARS (PER 323-1974 DEF.)	110 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION
P.U. #: 191003	SUBMERGED	228.3 YES	FSAR SECTION		N/A	AUTH. REFERENCE
PLANT LOC.: C.B.21						
COORDINATES: X=1508.0 Y=1639.0 Z=255.0						
INSTALLED (Y/M): BY FLD.	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
QUALIF EXEMPT: N/A	OPERABILITY	O	REFERENCES: FLON DIAG. CAR-2165 G-801			REVISION # : DATE
QUALIF:	TEMPERATURE	T				
STATUS:	PRESSURE	P				
	REL. HUMIDTY	H				
	CHEM. SPRAY	C				
PHYS DNG REF: CAR-2165 G-147	RADIATION	R	SYSTEM: REACTOR COOLANT			TAG: 2RC-D5285A-1
PHYS DNG LOC: TOTAL EQUIP. LIST	AGING	A				
MOUNTING: N/A	SUBMERGENCE	S				
EQ. DUC. LOC: 9.2	FSAR ENV CAT:	A				
	1988 CATEG.:					
	APPENDIX E					



UTILITIES	POLINA POWER & LIGHT	COMPONENT EVALUATION	TEST	CAPACITY	900 MW(E)	CES#
EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	ACTUAL	DESIGN QUALITY	DOCUMENTATION ACTUAL	DESIGN QUALIFICATION METHOD	QUALIFICATION HISTORY ITEMS
TAG NO: 25 IRC R 528	OPERABILITY	40 YEARS		OPERABILITY REVIEW		ACCEL TIME
EQUIPMENT TYPE: RELIEF VALVE	NORM/TEST DBA	1 YEAR POST DBA				ACCEL TEMP
COMPONENT POSITION SW.	TEMPERATURE	120°F NORM 380°F FOR DBA		FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1		REPLACEMENT
MANUFACTURER: CROSBY	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA		FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1(DBA)		MAINTENANCE
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM. FSAR SECT. 3.11.4.3(DBA)		SUBCOMPONENTS
FUNCTION: PRESSURIZER SAFETY & SERVICE RELIEF VALVE	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1		
ACCUM. SPEC: N/A	R GAMMA A BETA D SHIELD T.I.D.	1.3E7 3.7E8 100% BETA 1.3E7		FSAR APP. 3.11B-21 CONT. RAD. ZONE CG		
ACCUM. DEN: N/A	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51		SAFETY FUNCTION
P.O. NO: CND #	SUBMERGED	228.3 YES		FSAR SECTION 3.6		AUTH. REFERENCE
PLANT LOC.: CB 41	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
COORDINATES X= Y= Z= 308.0	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR 2165 G801			REVISION #
INSTALLED (Y/II)	TEMPERATURE	T				DATE
INSTAL. REF: QUALIF EXEMPTN:	PRESSURE	P				
QUALIFI:	REL. HUMIDTY	H				
STATUS:	CHEM. SPRAY	C				
PHYS DNG REF: CAR 2165 G148	RADIATION AGING	R A		SYSTEM: REACTOR COOLANT		
PHYS DNG LUC:	SUBMERGENCE	S		TAG: 25 IRC R 528		
MOUNTING:	FSAR ENV CAT:					
EQ. DUC. LUC:	10588 CATEG.:					
	APPENDIX E					



UTILITIES		COMPONENT EVALUATION		CAPACITY: 900 MW(E)		CES#	
EQUIP. DESCRIP	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	M/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL DEH. QUALIF.			
TAG NO: ES ICR 529	OPERABILITY	40 YEARS	OPERABILITY REVIEW				ACCEL TIME
EQUIPMENT: RELIEF VALVE TYPE	NORM/TEST DBA	1 YEAR POST DBA					ACCEL TEMP
COMPONENT: POSITION SW.	TEMPERATURE	120°F NORM 380°F FOR DBA	FSAR TABLE 19.4.0-1 FSAR FIG. 13.11.4-1				REPLACEMENT
MANUFACTURER: CROSBY	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 13.11.6-1 (DBA)				MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM. 100% DBA	FSAR TABLE 19.4.0-1 NORM. FSAR SECT. 13.11.4.3 (DBA)				SUBCOMPONENTS
FUNCTIONS: PRESSURIZER & SERVICE SAFETY RELIEF VALVE	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1				
ACCUM. SPEC: N/A	R GAMMA	1.3 E7	FSAR APP. 3.11B-21				
ACCUM. DEH.: N/A	A BETA	13.7 E8	CONT. RAD. ZONE CG				
SPECIFICATIONS:	D SHIELD	100% BETA					
P.O. #	Y.I.D.	1.3 E7					
PLANT LOC.: CB 41	AGE-INST LIFE	40 YEARS	10 CFR 50 PARAGRAPH 50.51				SAFETY FUNCTION
COORDINATES X=	(PER 325-1979 DEF.)						
Y=	SUBMERGED	228.3	FSAR SECTION 13.6				AUTH. REFERENCE
Z= 308.0							
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
QUALIF EXEMPT:	OPERABILITY	O	REFERENCES: FLOW DIAG. 2165 G801				
QUALIF:	TEMPERATURE	T					
STATUS:	PRESSURE	P					
	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DNG REF: CAR 2165 Q148	AGING	A					REVISION #:
PHYS DNG LUC:	SUBMERGENCE	S					DATE:
MOUNTING:	FSAR ENV CAT:						SYSTEM: REACTOR COOLANT
EQ. DUC. LUC:	10500 CATEG.:						TAG: ES ICR 529
	APPENDIX E:						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/MI UTS	ITEMS
	PARAMETER	ACTUAL	DEH.	QUALIF.			
TAG NO: ZS IRC R530	OPERABILITY	40 YEARS NORMAL					ACCEL TIME
EQUIPMENT: RELIEF VALVE	NDRM/TEST DBA	1 YEAR POST DBA					ACCEL TEMP
COMPONENT: POSITION SW.	TEMPERATURE	120°F NORM 380°F FOR DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		REPLACEMENT
MANUFACTURER: CROSBY	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA			FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)		MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM. 100% DBA			FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)		SUBCOMPONENTS
MODEL AND SERIAL #	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1		
FUNCTION: PRESSURIZER SAFETY & SERVICE RELIEF VALVE	R GAMMA	1.3 E7			FSAR APP. 3.11B-21		
ACCUM. SPEC: N/A	A BETA	3.7 E8			CONT. RAD. ZONE CG		
ACCUM. DEH.: N/A	D SHIELD	100% BETA					
SPECIFICATIONS:	T.I.D.	1.3 E7					
P.O #: CND #:	AGE				10 CFR 50		SAFETY FUNCTION
PLANT LOC.: CB41	INST LIFE (PER 323-1974 DEF.)	40 YEARS			PARAGRAPH 50.51		
COORDINATES X=	SUBMERGED	228.3			FSAR SECTION 3.6		AUTH. REFERENCE
Y=							
Z= 308.0							
INSTALLED (Y/M):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE	
INSTAL. REF:	OPERABILITY	O	REFERENCES:				
QUALIF EXEMPTN:	TEMPERATURE	T					
QUALIFI:	PRESSURE	P					
STATUS:	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DNG REF: CAR 2165 G148	AGING	A				REVISION #:	
PHYS DNG LUC:	SUBMERGENCE	S				DATE:	
MOUNTING:						SYSTEM: REACTOR COOLANT	
EQ. DUC. LUC:	FSAR ENV CAT:					TAG: ZS IRC R 530	
	10588 CATEG.:						
	APPENDIX E:						



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	M/M/ UITS	ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: LT-IRC 1310 SA	OPERABIL-ITY	40 YEARS			OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: LEVEL TRANSMITTER TYPE	NORM/TEST DBA	1 YEAR POST DBA						ACCEL TEMP
COMPONENT:	TEMPERATURE	104° F NORM 104° F DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-4		M	REPLACEMENT
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM. 4 DBA					M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M	SUBCOMPONENTS
MODEL AND SERIAL #: 752	CHEMICAL SPRAY	N/A					M	
FUNCTION: (RVLIS) SERVICE REACTOR VESSEL LEVEL	R GAMMA	1.5E5			FSAR FIG. 3.11B-23		H	
ACCUM. SPEC: N/A	A BETA	17.2E4			ZONE RG			
ACCUM. DEM.: N/A	D SHIELD	100% BETA						
SPECIFICATIONS:	T.I.D.	11.6E5						
P.O. # 459261 CND # 1SH.139	AGE-INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTIONS
PLANT LOC.: AB21	(PER 323-1979 DEF.)							
COORDINATES X=	SUBMERGENCE	191.0			FSAR SECT. 13.6			AUTH. REFERENCE
Y=		YES						
Z=236.0								
INSTALLED (Y/H):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTAL. NEP:	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR 2165 G844				REVISION # : DATE :	
QUALIF. EXEMPT:	TEMPERATURE	T						
QUALIF.:	PRESSURE	P						
STATUS:	REL. HUMIDTY	H						
:	CHEM. SPRAY	C						
PHYS ENG NEP: CAR 2166 G437503	RADIATION	R						
PHYS ENG LOC: H-4	AGING	A						
MOUNTING:	SUBMERGENCE	S						
ENG. LOC: P.O. 459261	FSAR ENV CAT:							
	1958 CATEG.:							
	APPENDIX E							

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIF.	M/M	OUTS	CESS	
PARAMETER		ACTUAL	DEN.	ACTUAL	DEN.	METHOD		ITEMS		
TAG NO: LIS-IRC 1310 SA	OPENABIL- ITY	40 YEARS		OPERABILITY REVIEW					ACCEL TIME	
EQUIPMENT: DIFF. PRESS. IND. SW. TYPE	NORM/TEST	1 YEAR							ACCEL TEMP	
COMPONENT:	DBA	POST DBA							REPLACEMENT	
MANUFACTURER: BARTON	TEMPERAT- URE	104° F NORM		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-4			M		MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM							SUBCOMPONENTS	
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			M			
FUNCTION: (RVLIS) & SERVICE, REACTOR VESSEL LEVEL	CHEMICAL SPRAY	N/A					M			
ACCUM. SPEC: N/A	R GAMMA A BETA D SHIELD T.I.D.	2.0E4 17.2E4 100% BETA 4.0E4		FSAR FIG. 3.11B-23 ZONE RG			H			
ACCUM. DEN.: N/A	AGE- INST LIFE (PER 323- 1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51					SAFETY FUNCTIONS: SEE ESE-49 TAB D	
SPECIFICATIONS: P.O. # 459261, CND # 139 PLANT LOC.: AB21	SUBMERGED	191.0 YES		FSAR SECT. 3.6					AUTH. REFERENCE: M.J.H.	
COORDINATES X= Y= Z=236.0	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-49			
INSTALLED (Y/H): INSTAL. REF: QUALIF EXEMPTN:	OPERABILITY	O ESE-49	REFERENCES: FLOW DIAG. CAR 2165 G 844				REVISION # : DATE : SYSTEM (RVLIS) REACTOR COOLANT TAG LIS IRC 1310 SA			
QUALIFI:	TEMPERATURE	T								
STATUS	PRESSURE	P								
	REL. HUMIDITY	H								
	CHEM. SPRAY	C								
PHYS DNG REF: CAR 2166 G 437 503 PHYS DNG LUC: G-4 MOUNTING EDUC. LUC: P.O. 459261	RADIATION AGING SUBMERGENCE FSAR ENY CAT: 10588 CATEG. APPENDIX E	R A S								

UTILITIES: BOILING WATER & LIQUID		COMPONENT EVALUATION SHEET		CAPACITY: 900 MW(E)			
EQUIP. DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M/OUTS	ITEMS
	PARAMETER	ACTUAL	DEM. QUAL.	ACTUAL DEM. QUALIF.			
TAG NO: LT-IRC1311SA	OPENABILITY	40 YEARS		OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: LEVEL TRANSMITTER TYPE	INDM/TEST	1 YEAR					ACCEL TEMP
COMPONENT:	DBA	POST DBA					REPLACEMENT
MAINTAINERS: BARTON	TEMPERATURE	104° F NORM		FSAR TABLE 9.4.0-1		M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE		104° F DBA		FSAR FIG. 3.11B-4			SUBCOMPONENTS:
MODEL AND SERIAL #	PRESSURE	ATMOS. NORM				M	
FUNCTIONS (RVLIS) & SERVICE REACTOR VESSEL LEVEL		DBA					
	RELATIVE HUMIDITY	20-90% NORM		FSAR TABLE 9.4.0-1 NORM		M	
		100% DBA		FSAR SECT. 3.11.4.3(DBA)			
	CHEMICAL SPRAY	N/A				M	
ACCUM. SPEC: N/A	R GAMMA	1.5E5		FSAR FIG. 3.11B-23		H	
ACCUM. DEM.: N/A	A BETA	7.2E4		ZONE RG			
SPECIFICATIONS:	D SHIELD	100% BETA					
P.O. # 459261 CND # 1SH.139	T.I.D.	1.6E5					
PLANT LOC.: AB21	AGE - INST LIFE (PER 323-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTIONS:
COORDINATES X= Y= Z=236.0	SUBMERGED	191.0		FSAR SECT. 3.6			AUTH. REFERENCE:
INSTALLED (Y/H):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTALL. KEYS:	TEMPERATURE	O	REFERENCES: FLOW DIAG. CAR 2165 9844			REVISION #: DATE: SYSTEM (RVLIS) REACTOR COOLANT TAG LT-IRC1311SA	
QUALIF EXEMPT:	OPERABILITY	T					
QUALIF:	TEMPERATURE	P					
STATUS:	PRESSURE	H					
	REL. INDMTY	C					
	CHEM. SPRAY	R					
	RADIATION AGING	A					
PHYS DNG KEYS CAR 2166 6437 303	SUBMERGENCE	S					
PHYS DNG LUG MOUNTING	FSAR ENV CAT:						
EQ. DUC. LUG: P.O. 459261	10580 CATEG.:						
	APPENDIX E						

EQUIP. DESIGNATION	ENVIRONMENT		DEN.	QUALIF.	DOCUMENTATION		QUALIF. METHOD	H/M	UNITS	ITEMS
	PARAMETER	ACTUAL			ACTUAL	DEN.				
TAG NO 1LT-IRC 1312 SA	OPERABIL-	40 YEARS	2	3	4	5	6	7		ACCEL TIMES
EQUIPMENT LEVEL TRANSMITTER TYPE	ITY	NORMAL								ACCEL TEMPS
COMPONENTS	NOHM/TEST DBA	1 YEAR POST DBA								REPLACEMENT
MAINT. ALIQUOT: MARTON	TEMPERAT-	104° F NORM								MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	URE	104° F DBA			FSAR TABLE 9.4.0-1				M	
MODEL AND SERIAL NO: 752					FSAR FIG. 3.11B-4					
FUNCTIONS (RVLIS): SERVICE REACTOR VESSEL LEVEL	PRESSURE	ATMOS. NORM.								SUBCOMPONENTS
		DBA							M	
	RELATIVE HUMIDITY	20-90% NORM.			FSAR TABLE 9.4.0-1 NORM.					
		100% DBA			FSAR SECT. 3.11.4.3 (DBA)				M	
	CHEMICAL SPRAY	N/A							M	
ACCUM. SPEC: N/A	R GAMMA	1.5E5			FSAR FIG. 3.11B-23					
ACCUM. DEN.: N/A	A BETA	1.2E4			ZONE RG				H	
SPECIFICATIONS:	D SHIELD	100% BETA								
P.O. NO 459261 CND # 15H.139	T.I.D.	1.6E5								
PLANT LOC.: AB21	AGE-				10 CFR 50 PARAGRAPH 50.51					SAFETY FUNCTIONS
COORDINATES X=	INST LIFE	40 YEARS								
Y=	(PER 523-1974 DEF.)									
Z=236.0	SUBMERGED	191.0			FSAR SECT. 3.6					AUTH. REFERENCES
		YES								

INSTALL. REF:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
QUALIF EXEMPT:	OPERABILITY	O		
QUALIF:	TEMPERATURE	T		
STATUS:	PRESSURE	P		
	REL. HUMIDITY	H		
	CHEM. SPRAY	C		
	RADIATION	R		
PHYS DNG REF: CAR 2166 G437 503	AGING	A	REFERENCES:	
PHYS DNG LUC: H-4	EMERGENCE	S	FLOW DIAG. CAR 2165 G 844	
MOUNTING:	FSAR ENV CAT: 10588 CATEG. 1			REVISION #:
EN. DOC. LUC: P.O. 459261	APPENDIX E			DATE:
				SYSTEM (RVLIS) REACTOR COOLANT TAG 1LT-IRC 1312 SA



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIFICATION METHOD	H/M	UNITS
	PARAMETER	ACTUAL				
TAG NO: LIS-IRC 1312 SA	OPENABILITY	40 YEARS	OPERABILITY			ACCEL TIME
EQUIPMENT: DIFF PRESS. IND. SW. TYPE	ITY	NORMAL	REVIEW			ACCEL TEMP
	NORM/TEST DBA	1 YEAR				REPLACEMENT
COMPONENT:	TEMPERATURE	104° F NORM	FSAR TABLE 9.4.0-1		M	MAINTAIN.
		104° F DBA	FSAR FIG. 3.11B-4			SUBCOMPONENTS
MAIN ALTERNATOR: BARTON	PRESSURE	ATMOS. NORM				
MAJOR SUPPLIER: WESTINGHOUSE		DBA			M	
	RELATIVE HUMIDITY	20-90% NORM	FSAR TABLE 9.4.0-1 NORM		M	
MODEL AND SERIAL #		100% DBA	FSAR SECT. 3.11.4.3 (DBA)			
FUNCTIONS (RVLIS) & SERVICE REACTOR VESSEL LEVEL	CHEMICAL SPRAY	N/A			M	
ACCUM. SPEC: N/A	R GAMMA	2.0E4	FSAR FIG. 3.11B-23		H	
ACCUM. DEM.: N/A	A BETA	7.2E4	ZONE RG			
	D SHIELD	100% BETA				
SPECIFICATIONS:	T.I.D.	7.0E4				
	AGE-INST LIFE (PER 323-1978 DEF.)	40 YEARS	10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTIONS SEE TAB B OF ESE-49
P.O. # 459261 CND # 15H-139	SUBMERGED	191.0	FSAR SECT. 3.6			
PLANT LOC.: AB21		YES				AUTH. REFERENCE: M.J.H.
COORDINATES X= Y= Z=236.0						

QUALIF EXEMPTN:	PARAMETER	SUPPL. REVIEW
OPERABILITY	TEMPERATURE	T
TEMPERATURE	PRESSURE	P
PRESSURE	REL. HUMIDITY	H
REL. HUMIDITY	CHEM. SPRAY	C
CHEM. SPRAY	RADIATION	R
RADIATION	AGING	A
AGING	SUBMERGENCE	S
SUBMERGENCE	FSAR ENV CAT	
FSAR ENV CAT	1958B CATEG.	
1958B CATEG.	APPENDIX E	
APPENDIX E		

OTHER EQUIPMENT THIS CES APPLIES TO:

REFERENCES:
 FLOW DIAG. CAR 2165 G844

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-49

REVISION #:
 DATE:
 SYSTEM: (RVLIS) REACTOR COOLANT
 TAG: LIS-IRC 1312 SA

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		METHODS		ITEMS	
PARAMETER		ACTUAL		ACTUAL		ACTUAL		METHOD		ITEMS	
TAG NO : TE-IRC 1313 SA		OPERABILITY		OPERABILITY						ACCEL TIME	
EQUIPMENT TEMP. ELEMENT TYPE		NORMAL		REVIEW						ACCEL TEMP	
COMPONENT		1 YEAR								REPLACEMENT	
MANUFACTURER: MINCO		POST DBA								MAINTENANCE	
MAJOR SUPPLIER: WESTINGHOUSE		TEMPERATURE		FSAR TABLE						SUBCOMPONENTS	
MODEL AND SERIAL #		120° F NORM		19.4.0-1							
FUNCTIONS: REACTOR HEAD & SERVICE CAPILLARY INBOARD TEMP.		FSAR FIG. 3.11.4-1 FOR DBA		FSAR FIG. 3.11.4-1				H			
ACCUM. SPEC: N/A		PRESSURE		FSAR SECT. 3.11.6 NORM. FIG.							
ACCUM. DEM.: N/A		ATMOS. NORM.		13.11.6-1 (DBA)				H			
SPECIFICATIONS:		RELATIVE HUMIDITY		FSAR TABLE 19.4.0-1 NORM.							
P.O # 435917 CND # 15H 341		40% NORM. 100% DBA		FSAR SECT. 13.11.4.3 (DBA)				H			
PLANT LOC.: C.B.		CHEMICAL SPRAY		FSAR SECT. 13.11.5.1				H			
COORDINATES X= Y= Z= 278'9		2000-2100 PHM BORON PH 8.5-11.0									
INSTALLED (Y/II):		R GAMMA 1.2 EG		FSAR FIG. 3.11.3-21 CONT. RAD. ZONE C5				H			
INSTALL. REF: BY FIELD		A BETA 3.4 EG									
QUALIF EXEMPT: N/A		D SHIELD 100% BETA		110 CFR 50 PARAGRAPH 50.51						SAFETY FUNCTIONS: SEE ESE-42 TAB 'B'	
STATUS:		T.I.D. 4.7 EG									
PHYS DNG REF: CAR-2166 G453		AGE- INST LIFE 40 YEARS (PER 323-1974 DEF.)									
PHYS DNG LUCI: F-6		SUBMERGED: 228.3		FSAR SECTION 13.6						AUTH. REFERENCE: M.J.H.	
MOUNTING:											
EU.DOC.LUCI: W RO. 435917											
OTHER EQUIPMENT THIS CES APPLIES TO:		PARAMETER		SUPPL. REVIEW		OTHER EQUIPMENT THIS CES APPLIES TO:		OTHER EQUIPMENT THIS CES APPLIES TO:		QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42	
REFERENCES:		OPERABILITY		O ESE-42		REFERENCES:		REFERENCES:		REVISION # : DATE :	
FLOW DIAG. CAR 2165 G844		TEMPERATURE		T		FLOW DIAG. CAR 2165 G844		FLOW DIAG. CAR 2165 G844		SYSTEM : (RVLIS) REACTOR COOLANT TAG : TE-IRC 1313 SA	
		PRESSURE		P							
		REL. HUMIDTY		H							
		CHEM. SPRAY		C							
		RADIATION		R							
		AGING		A							
		SUBMERGENCE		S							
		FSAR ENV CAT: 19500 CATEG. APPENDIX E									

EQUIPMENT DESCRIPTION		ENVIRONMENTAL PARAMETER ACTUAL		DOCUMENTATION ACTUAL		QUALIFICATION METHOD		H/M/OUTS ITEMS	
EQUIPMENT DESCRIPTION		ENVIRONMENTAL PARAMETER ACTUAL		DOCUMENTATION ACTUAL		QUALIFICATION METHOD		H/M/OUTS ITEMS	
TAG NO: TE-IRC 1314-5A		OPERABILITY: 40 YEARS		OPERABILITY: 10				ACCEL TIME	
EQUIPMENT TEMP. ELEMENT TYPE		NORM/TEST: 1 YEAR		REVIEW					
COMPONENT:		IDBA: POST DBA						ACCEL TEMP	
MANUFACTURER: MINCO		TEMPERATURE: 120°F NORM		FSAR TABLE: 19.4.0-1				REPLACEMENT	
MAJOR SUPPLIER: WESTINGHOUSE		FSAR FIG.: 3.11.4-1		FSAR FIG.: 3.11.4-1		H			
MODEL AND SERIAL #		FOR DBA						MAINTAIN.	
FUNCTION & SERVICE		PRESSURE: ATMOS. NORM.		FSAR SECT.: 3.11.6 NORM.				SUBCOMPONENTS	
RYLIS REACTOR HEAD & CAPILLARY OUTBOARD		FSAR FIG.: 3.11.8-1		FSAR FIG.: 3.11.6-1 (DBA)		H			
TEMP.		FOR DBA							
ACCUM. SPEC: N/A		RELATIVE HUMIDITY: 40% NORM		FSAR TABLE: 19.4.0-1 NORM					
ACCUM. DEM.: N/A		100% DBA		FSAR SECT.: 3.11.4.3 (DBA)		H			
SPECIFICATIONS:		CHEMICAL SPRAY: 2000-2100		FSAR SECT.: 3.11.5.1					
P.O. # 435917 CND # 1 SH # 341		PH 8.5-11.0				H			
PLANT LOC.: C.B.		R GAMMA: 1.1 EG		FSAR FIG.: 3.11.8.21					
COORDINATES X=		A BETA: 3.1 ET		CONT. RAD. ZONE C4		H			
Y=		D SHIELD: 100% BETA							
Z= 266-1		T.I.D.: 1.15 EG							
INSTALLED (Y/II):		SURMERGED: 228.3		FSAR SECTION: 13.6				SAFETY FUNCTIONS: SEE ESE-42 TAB B	
INSTAL. REF: BYFIELD									
QUALIF EXEMPT: N/A									
QUALIF STATUS:		SUPPL. REVIEW: O ESE-42		OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42	
PHYS DNG REF: CAR-2166 Q452		OPERABILITY: T		REFERENCES: FLOW DIAG. CAR 2165 Q844				REVISION #:	
PHYS DNG LIC: B-10		TEMPERATURE: P						DATE:	
MOUNTING:		PRESSURE: H						SYSTEM: (RYLIS) REACTOR COOLANT	
EQ. DOC. LUC: W P.O. 435917		REL. HUMIDY: C						TAG: TE-IRC 1314-5A	
		CHEM. SPRAY: C							
		RADIATION: R							
		FACING: A							
		SURMERGENCE: S							
		FSAR ENV CAT: 10500 CATEG. 1							
		APPENDIX E							

UTILITIES		COMPONENT EVALUATION		CAPACITY		900 MW(E)		CES#		
EQUIP DESCRIPTION	ENVIRONMENT		DEM. QUALIF.	DOCUMENTATION		QUALIF. H/WI OUTS		METHOD	ITEMS	
	PARAMETER	ACTUAL		ACTUAL	DEM. QUALIF.					
TAG NO : TE-IRC 1315 SA	OPERABIL-ITY	40 YEARS		OPERABILITY					ACCEL TIME	
EQUIPMENT: TEMP. ELEMENT TYPE	NORM/TEST	NORMAL 1 YEAR		REVIEW					ACCEL TEMP	
COMPONENT:	DBA	POST DBA							REPLACEMENT	
MANUFACTURER: MINCO	TEMPERATURE	120° F NORM		FSAR TABLE					MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE	URE	FSAR FIG. 3.11.4-1 FOR DBA		19.4.0-1 FSAR FIG. 3.11.4-1			H		SUBCOMPONENTS	
MODEL AND SERIAL #	PRESSURE	ATMOS. NORM		FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 FOR DBA			H			
FUNCTION: REACTOR HOT LEG & SERVICE CAPILLARY INBOARD TEMP	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			H			
ACCUM. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1			H			
ACCUM. DEM.: N/A	R GAMMA	1.1 EG		FSAR FIG. 3.11.3-20			H			
SPECIFICATIONS:	A BETA	1.7 E7		CONT. RAD. ZONE C1						
P.O. # 435917 CND # 15H#34	D SHIELD	100% BETA							SAFETY FUNCTIONS: SEE BSE-42 TAB B	
PLANT LOC.: C.B.	T.I.D.	1.15 EG								
COORDINATES X=	AGE			10 CFR 50 PARAGRAPH 50.51						
Y=	INST LIFE	40 YEARS								
Z= 249.3	(PER 323-1974 DEF.)									
INSTALLED (Y/N):	BURNED	228.3		FSAR SECTION 13.6					AUTH. REFERENCE: M.J.H.	
INSTALL. NEF: BY FIELD	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: BSE-42			
QUALIF EXEMPT: N/A	OPERABILITY	O BSE-42	REFERENCES: FLOW DIAG. CAR 2165 G844				REVISION # : DATE : SYSTEM : (RVLIS) REACTOR COOLANT TAG : TE-IRC 1315 SA			
QUALIF:	TEMPERATURE	T								
STATUS:	PRESSURE	P								
	REL. HUMIDTY	H								
	CHEM. SPRAY	C								
PHYS DNG NEF: CAR 2166 G451	RADIATION	R								
PHYS DNG LIC: H-15	AGING	A								
MOUNTING:	EMERGENCY	S								
EQU. DUC. LUC: N P.O. 435917	FSAR ENV CAT:									
	1958 CATEG.									
	APPENDIX E									



UTILITY	MINA PUMER & LIGHT	COMPONENT EVALUATION		CAPACITY:	900 MW(E)	CES#	
EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	ACTUAL	DEN. QUALIF.	DOCUMENTATION ACTUAL	DEN. QUALIF.	QUALIF. METHOD	H/W/OUTS ITEMS
TAG NO: TE-IRC 1316 SA (SPARE)	OPERABILITY	40 YEARS		OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: TEMP. ELEMENT TYPE	NOHM/TEST DBA	1 YEAR					ACCEL TEMP
COMPONENT:	TEMPERATURE	120°F NORM		FSAR TABLE 19.4.0-1			REPLACEMENT
MANUFACTURER: MINCO		FSAR FIG. 13.11.4-1		FOR DBA 13.11.4-1		H	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.		FSAR SECT. 13.11.6 NORM. FIG.		H	SUBCOMPONENTS
MODEL AND SERIAL #		FSAR FIG. 13.11.8-1		FOR DBA 13.11.6-1 (DBA)			
FUNCTION: WESTINGHOUSE REACTOR HOT & SERVICE LEG CAPILLARY OUTBOARD TEMP.	RELATIVE HUMIDITY	40% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM. FSAR SECT. 13.11.4.3 (DBA)		H	
ACCUM. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0		FSAR SECT. 13.11.5.1		H	
ACCUM. DEN.: N/A	R GAMMA			FSAR FIG. 13.11B		H	
SPECIFICATIONS:	BETA			CONT. RAD. ZONE			
P.O. # 435917 CND # 15H#341	D SHIELD						SAFETY FUNCTIONS: SEE ESE-42 TAB 7
PLANT LOC.: C.B.	T.I.D.						
COORDINATES X=	AGE-			10 CFR 50 PARAGRAPH 50.51			
Y=	INST LIFE	40 YEARS					
Z=	(PER 325-1974 DEF.)						
INSTALLED (Y/II):	SURMERGED	228.3		FSAR SECTION 13.6			AUTH. REFERENCE: M.J.H.
INSTALL. REF: BY FIELD	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42
QUALIF EXEMPT: N/A	OPERABILITY	O ESE-42	REFERENCES: FLOW DIAG. CAR 2165 G044				REVISION #
QUALIF:	TEMPERATURE	T					DATE
STATUS:	PRESSURE	P					SYSTEM: (RVLS) REACTOR COOLANT
	REL. HUMIDTY	H					TAG: TE-IRC 1316 SA
	CHEM. SPRAY	C					
PHYS DNG REF:	RADIATION	R					
PHYS DNG LUC:	AGING	A					
MOUNTING:	SURMERGENCE	S					
EQ. DUC. LUC: W.P.O. 435917	FSAR ENV CAT:						
	10588 CATEG.						
	APPENDIX E						

UTILITIES: INA PUMPER & LIGHT		COMPONENT EVALUATION		CAPACITY: 900 MW(E)		CES#		
EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION		N/M/OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.	ACTUAL	DEM.		QUALIF. METHOD
TAG NO: TE-IRC 13175A <i>BOTTOM OF REACTOR</i>	OPERABILITY	40 YEARS			OPERABILITY			ACCEL TIMES
EQUIPMENT: TEMP. ELEMENT TYPE	ITY	NORMAL			REVIEW			
	MON/TEST	1 YEAR						
	DBA	POST DBA						ACCEL TEMP
COMPONENT:	TEMPERATURE	120°F NORM			FSAR TABLE			
		FSAR FIG. 3.11.4-1 FOR DBA			19.4.0-1 FSAR FIG. 3.11.4-1		H	REPLACEMENT
MANUFACTURER: MINCO	PRESSURE	ATMOS. NORM.			FSAR SECT. 3.11.6 NORM. FIG.			MAINTEN.
		FSAR FIG. 3.11.8-1 FOR DBA			13.11.6-1 (DBA)		H	SUBCOMPONENTS
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM. 100% DBA			FSAR TABLE 19.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)		H	
MODEL AND SERIAL #	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1		H	
FUNCTIONS: CAPILLARY TO SEAL & SERVICE TABLE INBOARD TEMP	R GAMMA				FSAR FIG. 3.11.B-20 CONT. RAD. ZONE C1		H	
ACCUM. SPEC: N/A	A BETA							
ACCUM. DEM.: N/A	D SHIELD							
	T.I.D.							
SPECIFICATIONS:	AGE - INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION: SEE ESE-42 TAB B
P.O. # 435917 CND # 1 SH # 34	(PER 323-1979 DEF.)							
PLANT LOC.: C.B.	SURMERGED	228.3			FSAR SECTION 3.6			
COORDINATES X= Y= Z= 225-9								AUTH. REFERENCE: M.J.H.
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42	
INSTAL. REF: BY FIELD	OPERABILITY	O ESE-42						
QUALIF EXEMPT: N/A	TEMPERATURE	T						
QUALIF:	PRESSURE	P						
STATUS:	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
	AGING	A						
	SURMERGENCE	S						
PHYS DNG REF: CAR 2164 G452	ISAH ENV CAT:		REFERENCES: FLOW DIAG. CAR 2165 G844				REVISION #	
PHYS DNG LUC:	10500 CATEG.:						DATE	
MOUNTING:	APPENDIX E						SYSTEM: (RVLIS) REACTOR COOLANT	
EQU. LOC: P.O. 435917							TAG: TE-IRC 13175A	

EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		METHOD		ITEMS	
PARAMETER		ACTUAL	DEM. QUALIF.	ACTUAL	DEM. QUALIF.	METHOD		ITEMS			
TAG NO: TE-IRC 1319 SA (SPARE)		OPERABILITY	40 YEARS	OPERABILITY						ACCEL TIME	
EQUIPMENT: TEMP. ELEMENT TYPE		ITY	NORMAL	REVIEW							
COMPONENT:		NORM/TEST	1 YEAR								
MANUFACTURER: MINCO		DBA	POST DBA							ACCEL TEMP	
MAJOR SUPPLIER: WESTINGHOUSE		TEMPERATURE	120°F NORM	FSAR TABLE						REPLACEMENT	
MODEL AND SERIAL #		URE	FSAR FIG. 3.11.4-1 FOR DBA	19.4.0-1 FSAR FIG. 3.11.4-1		H					
FUNCTIONS: RVLIS CAPILLARY FROM SERVICE SEAL TABLE TEMP.		PRESSURE	ATMOS. NORM. FSAR FIG. 3.11.8-1 FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)		H				MAINTAIN.	
ACCUM. SPEC: N/A		RELATIVE HUMIDITY	40% NORM. 100% DBA	FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		H				SUBCOMPONENTS	
ACCUM. DEM.: N/A		CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1		H					
SPECIFICATIONS:		R GAMMA A BETA D SHIELD T.I.D.		FSAR FIG. 3.11B CONT. RAD. ZONE		H					
P.O. # 435917 CWD # 1 SH # 34		AGF		110 CFR 50 PARAGRAPH 50.51						SAFETY FUNCTION: SEE ESE-42 TAB B	
PLANT LOC.: C.B.		INST LIFE (PER 523-1974 DEF.)	40 YEARS								
COORDINATES X= Y= Z=		SURMERGED	228.3	FSAR SECTION 13.6						AUTH. REFERENCE M.J.H.	
INSTALLED (Y/II): QUALIF EXEMPT: N/A		PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42			
QUALIFI STATUS		OPERABILITY	O ESE-42								
PHYS DNG NEF:		TEMPERATURE	T								
PHYS DNG LUCI		PRESSURE	P								
MOUNTING		REL. HUMIDTY	H								
EQ. DUC. LUCI: W/ P.O. 435917		CHEM. SPRAY	C								
		RADIATION	R								
		AGING	A								
		SURMERGENCE	S								
		FSAR ENV CAT:		REFERENCES: FLOW DIAG. CAR. 2165 G844				REVISION #: DATE:			
		1050R CATEG.:						SYSTEM: (RVLIS) REACTOR COOLANT			
		APPENDIX E						TAG: TE-IRC 1319 SA			

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER ACTUAL		DEM. QUALIF.	DOCUMENTATION ACTUAL DEM. QUALIF.		QUALIF. METHOD	H/M/ UITS ITEMS	ACCEL TIME
TAG NO: LT-IRC 1320 SB	OPERABILITY	40 YEARS		OPERABILITY REVIEW				
EQUIPMENT LEVEL TRANSMITTER TYPE	NORM/TEST DBA	1 YEAR POST DBA						ACCEL TEMP
COMPONENT:	TEMPERATURE	104° F NORM 104° F DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-4		M		REPLACEMENT
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM. DBA						MAINTENANCE
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M		SUBCOMPONENTS
MODEL AND SERIAL #	CHEMICAL SPRAY	N/A				M		
FUNCTIONS (RVLIS) & SERVICE, REACTOR VESSEL LEVEL	R GAMMA	1.5E5		FSAR FIG. 3.11B-23				
ACCUM. SPEC: N/A	A BETA	2.2E4		ZONE RG		H		
ACCUM. DEM.: N/A	D SHIELD	100% BETA						
SPECIFICATIONS:	T.I.D.	1.6E5						
P.O. # 459261 CND # 1SH.140	AGE - INST LIFE	40 YEARS		10 CFR 50 PARAGRAPH 50.51				SAFETY FUNCTIONS
PLANT LOC.: AB21	(PER 323-1974 DEF.)							
COORDINATES X= Y= Z=236.0	SUBMERGED	191.0 YES		FSAR SECT. 3.6				AUTH. REFERENCE

QUALIF EXEMPT	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGES
OPERABILITY	OPERABILITY	O		
TEMPERATURE	TEMPERATURE	T		
PRESSURE	PRESSURE	P		
REL. HUMIDITY	REL. HUMIDITY	H		
CHEM. SPRAY	CHEM. SPRAY	C		
RADIATION	RADIATION	R		
AGING	AGING	A		
SUBMERGENCE	SUBMERGENCE	S		
FSAR ENV CAT: 19588 CATEG. 1 APPENDIX 2			REFERENCES: FLOW DIAG. CAR 2165 G 844	REVISION # 1 DATE
				SYSTEM (RVLIS) REACTOR COOLANT TAG LT-IRC 1320 SB



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	H/M	OUTS	ITEMS
	PARAMETER	ACTUAL					
TAG NO: LIS-IRC 1320 SB	OPENABILITY	40 YEARS	OPERABILITY REVIEW				ACCEL TIME
EQUIPMENT: DIFF. PRESS. IND. SW. TYPE	NORM/TEST	NORMAL 1 YEAR					ACCEL TEMP
	DBA	POST DBA					REPLACEMENT
COMPONENT:	TEMPERATURE	104° F NORM 104° F DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-4		M		MAINTENANCE
MANUFACTURER: BARTON	PRESSURE	ATMOS. NORM 4 DBA			M		SUBCOMPONENTS
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M		
MODEL AND SERIAL #: 581	CHEMICAL SPRAY	N/A			M		
FUNCTIONS: (RVLIS) & SERVICE, REACTOR VESSEL LEVEL	R GAMMA	2.0 E4	FSAR FIG. 3.11B-23		H		
ACCUM. SPEC: N/A	A BETA	7.2 E4	ZONE RG				
ACCUM. DEM.: N/A	D SHIELD	100% BETA					
SPECIFICATIONS:	T.I.D.	170 E4					
P.O. # 459261 CND # 1139	AGE - INST LIFE	40 YEARS	10 CFR 50 PARAGRAPH 50.51				SAFETY FUNCTIONS: SEE ESE-49 TAB B
PLANT LOC.: AB21	(PER 323-1979 DEF.)						
CORORDINATES X= Y= Z=236.0	SUBMERGED	191.0 YES	FSAR SECT. 3.6				AUTH. REFERENCES: M.J.H.

QUALIF. CRITERIA	PARAMETER	SUPPL. REVIEW
OPERABILITY	OPERABILITY	O ESE-49
TEMPERATURE	TEMPERATURE	T
PRESSURE	PRESSURE	P
REL. HUMIDITY	REL. HUMIDITY	H
CHEM. SPRAY	CHEM. SPRAY	C
RADIATION	RADIATION	R
AGING	AGING	A
SUBMERGENCE	SUBMERGENCE	S
FSAR ENV CAT: 1958 CATEG. 1 APPENDIX E		

OTHER EQUIPMENT THIS CES APPLIES TO:

REFERENCES:

FLOW DIAG. 2165 G 844

QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-49

REVISION # :
DATE :
SYSTEM : (RVLIS) REACTOR COOLANT
TAG : LIS-IRC 1320 SB



EQUIP. DESIGNATION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	H/M	UNITS
	PARAMETER	ACTUAL				
TAG NO: LT-IRC 1321 SB	OPENABILITY	40 YEARS	OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: LEVEL TRANSMITTER	DBA	NORMAL				ACCEL TEMP
COMPONENT:	NORM/TEST	1 YEAR				REPLACEMENT
MANUFACTURER: BARTON	TEMPERATURE	104° F NORM	FSAR TABLE 9.4.0-1		M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE		104° F DBA	FSAR FIG. 3.11B-4			SUBCOMPONENTS
MODEL AND SERIAL #: 752	PRESSURE	ATMOS. NORM.				
FUNCTIONS: (RVLIS) REACTOR VESSEL LEVEL		DBA			M	
ACCUM. SPEC: N/A	RELATIVE HUMIDITY	20-90% NORM.	FSAR TABLE 9.4.0-1 NORM		M	
ACCUM. DEH.: N/A		100% DBA	FSAR SECT. 3.11.4.3 (DBA)			
SPECIFICATIONS:	CHEMICAL SPRAY	N/A			M	
P.O. # 459261 CND # 15H.140	R GAMMA	1.5E5	FSAR FIG. 3.11B-23		H	SAFETY FUNCTIONS
PLANT LOC.: AB21	A BETA	17.2E4	ZONE RG			
COORDINATES X= Y= Z=236.0	D SHIELD	100% BETA				
INSTALL. REF: CAR 2166 G436 502	T.I.D.	1.6E5	10 CFR 50 PARAGRAPH 50.51			
PHYS DNG REF: CAR 2166 G436 502	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS				
PHYS DNG LUC: C-17	SUBMERGED	191.0	FSAR SECT. 13.6			AUTH. REFERENCE
MOUNTING	YES					
EV.DUC.LUC: by P.O. 459261						

QUALIF. EXEMPTING	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
STATUS	OPERABILITY	O		
	TEMPERATURE	T		
	PRESSURE	P		
	REL. HUMIDTY	H		
	CHEM. SPRAY	C		
	RADIATION	R		
	SUBMERGENCE	S		
	FSAR ENV CAT: 10500 CATEG. APPENDIX E			

REFERENCES: FLOW DIAG. CAR 2165 G844

REVISION # :
DATE :
SYSTEM : (RVLIS) REACTOR COOLANT
TAG : LT-IRC 1321 SB

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	ACTUAL	DESIGN QUALITY	DOCUMENTATION ACTUAL	DESIGN QUALITY	QUALIFICATION METHOD	H/M	UNITS	ITEMS	
TAG NO: LIS-IRC 13215B	OPERABILITY	40 YEARS		OPERABILITY REVIEW					ACCEL TIME	
EQUIPMENT: DIFF. PRESS. IND. SW. TYPE	INDM/TEST DBA	1 YEAR POST DBA							ACCEL TEMP	
COMPONENT:	TEMPERATURE	104° F NORM		FSAR TABLE 9.4.0-1					REPLACEMENT	
MANUFACTURER: BARTON		104° F DBA		FSAR FIG. 3.11B-4			M		MAINTENANCE	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM							SUBCOMPONENTS	
MODEL AND SERIAL #: 501		4 DBA					M			
FUNCTION & SERVICE: (RVLS) REACTOR VESSEL LEVEL	RELATIVE HUMIDITY	20-90% NORM		FSAR TABLE 9.4.0-1 NORM						
		100% DBA		FSAR SECT. 3.11.4.3 (DBA)			M			
	CHEMICAL SPRAY	N/A								
ACCUM. SPEC: N/A							M			
ACCUM. DEM.: N/A	R GAMMA	2.0E4		FSAR FIG. 3.11B-23						
	A BETA	7.2E4		ZONE RG			H			
	D SHIELD	100% BETA								
	T.I.D.	4.0E4								
SPECIFICATIONS:	AGE-INST LIFE (PER 325-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51					SAFETY FUNCTIONS: SEE TAB B OF ESE-4A	
P.O. # 459261 CND # 140	SUBMERGED	191.0		FSAR SECT. 3.6						
PLANT LOC.: AB21		YES							AUTH. REFERENCE: M.J.N.	
COORDINATES X= Y= Z=236.0										
INSTALLED (Y/H):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-4A			
INSTAL. KEYS QUALIF EXEMPT:	OPERABILITY	O ESE-4A	REFERENCES: FLOW DIAG. CAR 2165 G844				REVISION # : DATE : SYSTEM (RVLS) REACTOR COOLANT TAG LIS-IRC 13215B			
QUALIFI:	TEMPERATURE	T								
STATUS:	PRESSURE	P								
:	REL. HUMIDTY	H								
:	CHEM. SPRAY	C								
:	RADIATION	R								
PHYS DNG REF: CAR 2166 G43 G502	AGING	A								
PHYS DNG LUCI B-17	SUBMERGENCE	S								
MOUNTING:	FSAR ENY CAT:									
EU.DUC.LUCI by P.O. 459261	10500 CATEG.:									
	APPENDIX E									

EQUIP. DESCRIPTION		ENVIRONMENTAL PARAMETER	ACTUAL	DEM. QUALITY	DOCUMENTATION ACTUAL	DEM. QUALIF.	QUALIF. METHOD	H/M	UNITS	ITEMS	
TAG NO: LT-IRC 1322 SB		OPERABILITY	40 YEARS		OPERABILITY REVIEW					ACCEL TIME	
EQUIPMENT LEVEL TRANSMITTER TYPE		NORM/TEST DBA	NORMAL 1 YEAR POST DBA							ACCEL TEMP	
COMPONENT		TEMPERATURE	104° F NORM 104° F DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-4			M		REPLACEMENT	
MAINT. ALIQUOT: BARTON		PRESSURE	ATMOS. NORM. 1 DBA							MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE		RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			M		SUBCOMPONENTS	
FUNCTION: (RVLIS) SERVICE REACTOR VESSEL LEVEL		CHEMICAL SPRAY	N/A					M			
ACCUM. SPEC: N/A		R GAMMA A BETA D SHIELD T.I.D.	1.5 E5 7.2 E4 100% BETA 11.6 E5		FSAR FIG. 3.11B-23 ZONE RG			H			
SPECIFICATIONS:		AGE-INST LIFE (PER 323-1979 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51					SAFETY FUNCTIONS	
P.O. # 459261 CND # 8 SH. 140		SUBMERGED	191.0 YES		FSAR SECT. 3.6					AUTH. REFERENCES	
PLANT LOC.: AB 21											
COORDINATES X= Y= Z= 236.0											
INSTALLED (Y/H):		PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:			
QUALIF. EXEMPT:		OPERABILITY	O	REFERENCES: FLOW DIAG. CAR 2165 9844				REVISION # DATE SYSTEM (RVLIS) REACTOR COOLANT TAG LT-IRC 1322 SB			
QUALIF. STATUS:		TEMPERATURE	T								
QUALIF. STATUS:		PRESSURE	P								
QUALIF. STATUS:		REL. HUMIDTY	H								
QUALIF. STATUS:		CHEM. SPRAY	C								
QUALIF. STATUS:		RADIATION	R								
PHYS. ENG. REF: CAR 2166 9436 502		AGING	A								
PHYS. ENG. LOC: C-17		SUBMERGENCE	S								
MOUNTING:											
EQ. DOC. LOC: P.O. 459261		FSAR ENV CAT: 1958B CATEG. 3									
		APPENDIX E									



EQUIP DESCRIPTION		ENVIRONMENTAL PARAMETER ACTUAL		DOCUMENTATION ACTUAL		QUALIF. METHOD	H/M	UTS	ITEMS
TAG NO		ENVIRONMENTAL PARAMETER ACTUAL		DOCUMENTATION ACTUAL		QUALIF. METHOD	H/M	UTS	ITEMS
LIS-IRC 1322 SB		OPERABIL- ITY	40 YEARS NORMAL	OPERABILITY REVIEW					ACCEL TIME
EQUIPMENT: DIFF. PRESS. IND. SW. TYPE		NORM/TEST DBA	1 YEAR POST DBA						ACCEL TEMP
COMPONENT:		TEMPERAT- URE	104° F NORM 104° F DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-4			M		REPLACEMENT
MANUFACTURER: BARTON		PRESSURE	ATMOS. NORM DBA						MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE							M		SUBCOMPONENTS
MODEL AND SERIAL #		RELATIVE HUMIDITY	20-90% NORM. 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			M		
FUNCT. USE: (RVLIS) & SERVICE REACTOR VESSEL LEVEL		CHEMICAL SPRAY	N/A				M		
ACCUM. SPEC: N/A		R GAMMA A BETA D SHIELD T.I.D.	2.0E4 7.2E4 100% BETA 14.0E4	FSAR FIG. 3.11B-23 ZONE RG			H		
SPECIFICATIONS:		AGE- INST LIFE (PER 323- 1978 DEF.)	40 YEARS	110 CFR 50 PARAGRAPH 50.51					SAFETY FUNCTIONS: SEE TAB B OF ESE-49
P.O. # 459261 CND # 140		SUBMERGED	191.0 YES	FSAR SECT. 13.6					AUTH. REFERENCE: M.J.H.
PLANT LOC.: AB21									
COORDINATES X= Y= Z=236.0									
INSTALLED (Y/II):		PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-49	
INSTAL. NEP:		OPERABILITY	O ESE-49	REFERENCES: FLOW DIAG. CAR 2165 G 844				REVISION # : DATE : SYSTEM : (RVLIS) REACTOR COOLANT TAG LIS-IRC 1322 SB	
QUALIF EXEMPTN:		TEMPERATURE	T						
QUALIFI:		PRESSURE	P						
STATUS:		REL. HUMIDTY	H						
:		CHEM. SPRAY	C						
PHYS DNG NEP: CAR 2166 G 436 502		RADIATION	R						
PHYS DNG LUC: B-17		AGING	A						
MOUNTING:		EMERGENCE	S						
EDUC. LUC: by P.O. 459261		FSAR ENV CAT:							
		10588 CATEG.:							
		APPENDIX E							

UTILITY		COMPONENT EVALUATION		CAPACITY		900 MW(E)		CES-	
EQUIP. DESCRIPTION	ENVIRONMENT PARAMETER	ACTUAL	DEM. QUALIF.	DOCUMENTATION ACTUAL	DEM. QUALIF.	QUALIF. METHOD	H/M	OUTS ITEMS	
TAG NO: TE-IRC 1324SB	OPERABILITY	40 YEARS		OPERABILITY REVIEW					ACCEL TIME
EQUIPMENT: TEMP. ELEMENT TYPE	NORM/TEST DBA	1 YEAR							ACCEL TEMP
COMPONENT:	TEMPERATURE	120°F NORM		FSAR TABLE 19.4.0-1					REPLACEMENT
MANUFACTURER: MINCO		FSAR FIG. 3.11.4-1 FOR DBA		FSAR FIG. 3.11.4-1			H		MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.		FSAR SECT. 3.11.6 NORM. FIG.			H		SUBCOMPONENTS
		FSAR FIG. 3.11.8-1 FOR DBA		3.11.6-1 (DBA)					
MODEL AND SERIAL #	RELATIVE HUMIDITY	40% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM			H		
FUNCTION & SERVICE				FSAR SECT. 3.11.4.3 (DBA)					
	CHEMICAL SPRAY	2000-2100 PRIM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1			H		
ACCUM. SPEC: N/A	R GAMMA	1.1EG		FSAR FIG. 3.11B-21					
ACCUM. DEM.: N/A	A BETA	3.1E7		CONT. RAD. ZONE C4			H		
SPECIFICATIONS:	D SHIELD	100% BETA							
	T.I.D.	1.15 EG							
P.O. # 435917 CND # 158-342	AGE-INST LIFE	40 YEARS		10 CFR 50 PARAGRAPH 50.51					SAFETY FUNCTION: SEE ESE-42 TAB B
PLANT LOC.: C.B.	(PER 323-1974 DEF.)								
COORDINATES X=	SURMERGED	228.3		FSAR SECTION 13.6					AUTH. REFERENCE: M.J.H.
Y=									
Z= 268-7									
INSTALLED (Y/H):	PARA-METER	SUPPL. REVIEW		OTHER EQUIPMENT THIS CES APPLIES TO:					QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42
INSTALL. REFI: BY FIELD	OPERABILITY	O ESE-42							
QUALIF EXEMPT: N/A	TEMPERATURE	T							
QUALIF STATUS:	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION FACTOR	R		REFERENCES:					
PHYS DNG REFI: CARE 266 6482	SURMERGENCE	S		FLOW DIAG. CAR 2165 6844					
PHYS DNG LUCI: H-14									
MOUNTING:	FSAR ENV CAT:								REVISION #:
EDUC. LUCI: W.P.O. 435917	1958 CATEG.:								DATE:
	APPENDIX E:								SYSTEM: (RVLIS) REACTOR COOLANT
									TAG: TE-IRC 1324SB

UTILITIES		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		M/MI OUTS	
EQUIPMENT DESCRIPTION		PARAMETER ACTUAL		ACTUAL DEM. QUALIF.		METHOD		ITEMS	
TAG NO: TE-IRC 1325 SB		OPERABILITY: 40 YEARS		OPERABILITY: 10				ACCEL TIME	
EQUIPMENT TEMP. ELEMENT TYPE		NORM/TEST: 1 YEAR		REVIEW					
COMPONENT:		DBA: POST DBA						ACCEL TEMP	
MANUFACTURER: MINCO		TEMPERATURE: 120° F NORM		FSAR TABLE					
MAJOR SUPPLIER: WESTINGHOUSE		URE: 1. FSAR FIG. 3.11.4-1 FOR DBA		19.4.0-1 FSAR FIG. 3.11.4-1		H		REPLACEMENT	
MODEL AND SERIAL #		PRESSURE: ATMOS. NORM		FSAR SECT. 3.11.6 NORM. FIG.				MAINTAIN.	
FUNCTIONS: REACTOR HOT LEG & SERVICE CAPILLARY INBOARD TEMP.		URE: 1. FSAR FIG. 3.11.8-1 FOR DBA		13.11.6-1 (DBA)		H		SUBCOMPONENTS	
ACCUM. SPEC: N/A		RELATIVE HUMIDITY: 40% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM					
ACCUM. DEM.: N/A		CHEMICAL SPRAY: 2000-2100 PPM BORON PH 8.5-11.0		FSAR SECT. 3.11.4.3 (DBA)		H			
SPECIFICATIONS:		R GAMMA: 1.1 EG		FSAR FIG. 3.11.5.1					
P.O. # 435917 CHD # 15M# 342		A BETA: 1.7 E7		FSAR SECT. 3.11.5.1		H			
PLANT LOC.: C.B.		D SHIELD: 100% BETA		CONT. RAD. ZONE C-1		H			
COORDINATES X=		T.I.D.: 1.15 EG						SAFETY FUNCTION: SEE ESE-42 TAB B	
Y=		AGE- INST LIFE: 40 YEARS		110 CFR 50 PARAGRAPH 50.51					
Z= 249-3		(PER 523-1974 DEF.)							
INSTALLED (Y/II):		SURMERGED: 228.3		FSAR SECTION 13.6				AUTH. REFERENCE: M.J.H.	
INSTALL. NEFS: BY FIELD									
QUALIF EXEMPT: N/A		PARAMETER		OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42	
QUALIF STATUS:		OPERABILITY		REFERENCES: FLOW DIAG. CAR 2165 G844				REVISION #	
PHYS DNG NEFS: CAR-2166 G450		TEMPERATURE						DATE	
PHYS DNG LUCI: C-5		PRESSURE						SYSTEM: (RVLIS) REACTOR COOLANT	
MOUNTING		REL. HUMIDITY						TAG: TE-IRC 1325 SB	
EQ. DUC. LUCI: P.O. 435917		CHEM. SPRAY							
		RADIATION							
		AGING							
		SURMERGENCE							
		FSAR ENV CAT: 19588 CATEG. 1 APPENDIX E							



EQUIPMENT DESCRIPTION		ENVIRONMENT		DOCUMENTATION		QUALIFICATION		METHOD		ITEMS	
PARAMETER		ACTUAL		ACTUAL		ACTUAL		METHOD		ITEMS	
TAG NO: TE-IRC 1326 SB		OPERABILITY: 40 YEARS		OPERABILITY REVIEW						ACCEL TIME	
EQUIPMENT TEMP. ELEMENT TYPE		NORMAL								ACCEL TEMP	
COMPONENT: DBA		1 YEAR								REPLACEMENT	
MANUFACTURER: MINCO		POST DBA								MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE		TEMPERATURE: 120° F NORM		FSAR TABLE 19.4.0-1						SUBCOMPONENTS	
MODEL AND SERIAL #		FSAR FIG. 3.11.4-1 FOR DBA		FSAR FIG. 3.11.4-1				H			
FUNCTION: RVLIS REACTOR HOT & SERVICE LEG CAPILLARY OUTBOARD TEMP.		PRESSURE: ATMOS. NORM.		FSAR SECT. 3.11.6 NORM. FIG.				H			
ACCUM. SPEC: N/A		FSAR FIG. 3.11.8-1 FOR DBA		FSAR SECT. 3.11.6-1 (DBA)							
ACCUM. DEM.: N/A		RELATIVE HUMIDITY: 40% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM				H			
SPECIFICATIONS:		CHEMICAL SPRAY: 2000-2100 PRM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1				H			
P.O. # 435917 CND # 15H# 342		R GAMMA: 1.2 EG		FSAR FIG. 3.11B-20 CONT. RAD. ZONE C3				H			
PLANT LOC.: C.B.		A BETA: 3.3E7								SAFETY FUNCTION: SEE ESE-42 TAB B	
COORDINATES X= Y= Z= 248-6		D SHIELD: 100% BETA									
INSTALLED (Y/N):		T.I.D.: 1.25 EG									
INSTAL. REF: BY FIELD		AGE: INST LIFE 40 YEARS (PER 323-1974 DEF.)		110 CFR 50 PARAGRAPH 50.51							
QUALIF EXEMPT: N/A		SURMERGED: 228.3		FSAR SECTION 13.6						AUTH. REFERENCE: M.J.H.	
QUALIF STATUS:		OTHER EQUIPMENT THIS CES APPLIES TO:								QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42	
PHYS DRG REF: CAR 2165 G450		PARA-METER: OPERABILITY		REFERENCES: FLOW DIAG. CAR 2165 G844						REVISION #:	
PHYS DRG LUC: C-16		TEMPERATURE								DATE:	
MOUNTING:		PRESSURE								SYSTEM: (RVLIS) REACTOR COOLANT	
EQ. DOC. LUC: P.O. 435917		REL. HUMIDITY								TAG: TE-IRC 1326 SB	
		CHEM. SPRAY									
		RADIATION									
		AGING									
		SURMERGENCE									
		FSAR ENV CAT: 10500 CATEG. 1 APPENDIX E									

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION METHOD	H/M/OUTS ITEMS	CAPACITY: 900 MW(E)	RESP.
	PARAMETER	ACTUAL	DEM.	QUALIF.				
TAG NO: TE-IRC 1327 SB BOTTOM OF REACTOR	OPERABILITY	40 YEARS			OPERABILITY			ACCEL TIME
EQUIPMENT: TEMP. ELEMENT TYPE	ITY	NORMAL			REVIEW			ACCEL TEMP
COMPONENT:	NORM/TEST	1 YEAR						REPLACEMENT
MANUFACTURER: MINCO	DBA	POST DBA						MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	TEMPERATURE	120°F NORM			FSAR TABLE			SUBCOMPONENTS
MODEL AND SERIAL #	URE	FSAR FIG. 3.11.4-1 FOR DBA			19.4.0-1 FSAR FIG. 3.11.4-1		H	
FUNCTION: CAPILLARY TO SEAL & SERVICE TABLE INBOARD TEMP.	PRESSURE	ATMOS. NORM.			FSAR SECT. 3.11.6 NORM. FIG.		H	
ACCUM. SPEC: N/A					13.11.6-1 (DBA)			
ACCUM. DEM.: N/A	RELATIVE HUMIDITY	40% NORM. 100% DBA			FSAR TABLE 19.4.0-1 NORM			
SPECIFICATIONS:					FSAR SECT. 13.11.4.3 (DBA)		H	
P.O. # 435917 CND # 15H#342	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0			FSAR SECT. 13.11.5.1		H	
PLANT LOC.: C.B.	R GAMMA				FSAR FIG. 3.11B-20 CONT. RAD. ZONE C1		H	
CORRDINATES X= Y= Z= 225-9	A BETA							
INSTALLED (Y/II):	D SHIELD							
INSTALL. REF: BY FIELD	T.I.D.							
QUALIF EXEMPT: N/A	AGE							
QUALIF: CAR 2166 G452	INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION: SEE ESE-42 TAB B
STATUS	(PER 323-1974 DEF.)							
PHYS DNG REF:	SURMERGED	228.3			FSAR SECTION 13.6			
PHYS DNG LUC:								
MOUNTING:								
EQU.DUC.LUC: W.P.O. 435917								
	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42	
	OPERABILITY	O ESE-42	REFERENCES:				REVISION #	
	TEMPERATURE	T	FLOW DIAG. CAR 2165 G844				DATE	
	PRESSURE	P					SYSTEM: (RVLIS) REACTOR COOLANT	
	REL. HUMIDTY	H					TAG: TE-IRC 1327 SB	
	CHEM. SPRAY	C						
	RADIATION	R						
	AGING	A						
	SURMERGENCE	S						
	FSAR ENV CAT:							
	FSAR CATEG.:							
	APPENDIX E							



EQUIP DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M/OUTS	ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: TE-IRC 1328 SB BOTTOM OF REACTOR	OPERABILITY	40 YEARS			OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT TEMP. ELEMENT TYPE	NORM/TEST	1 YEAR						ACCEL TEMP
COMPONENTS	DBA	POST DBA						REPLACEMENT
MANUFACTURER: MINCO	TEMPERATURE	120°F NORM			FSAR TABLE 19.4.0-1			MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	FSAR FIG.	3.11.4-1 FOR DBA			FSAR FIG. 3.11.4-1		H	SUBCOMPONENTS
MODEL AND SERIAL #	PRESSURE	ATMOS. NORM.			FSAR SECT. 3.11.6 NORM.			
FUNCTION: RYLIS CAPILLARY TO & SERVICE SEAL TABLE OUTBOARD TEMP.	FSAR FIG.	3.11.8-1 FOR DBA			FSAR FIG. 3.11.6-1 (DBA)		H	
ACCUM. SPEC: N/A	RELATIVE HUMIDITY	40% NORM. 100% DBA			FSAR TABLE 19.4.0-1 NORM.			
ACCUM. DEM.: N/A	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0			FSAR SECT. 3.11.4.3 (DBA)		H	
SPECIFICATIONS:	RADIATION				FSAR FIG. 3.11.5-1			
P.O. # 435917 CND # 1 SH # 342	A BETA SHIELD				FSAR FIG. 3.11B-20 CONT. RAD. ZONE C1		H	
PLANT LOC.: C.B.	T.I.D.							
COORDINATES X= Y= Z= 235-7	AGC				110 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION: SEE ESE-42 TAB B
INSTALLED (Y/N):	INST LIFE	40 YEARS						
INSTALL. REF: BY FIELD	(PER 323-1974 DEF. 1)							
QUALIF EXEMPTN: N/A	SURMERGED	228.3			FSAR SECTION 13.6			AUTH. REFERENCE: M.J.H.

QUALIF EXEMPTN	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42
QUALIF STATUS	OPERABILITY	O ESE-42	REFERENCES: FLOW DIAG. CAR 2165 G844	REVISION # : DATE : SYSTEM : (RYLIS) REACTOR COOLANT TAG : TE-IRC 1328 SB
	TEMPERATURE	T		
	PRESSURE	P		
	REL. HUMIDITY	H		
	CHEM. SPRAY	C		
	RADIATION	R		
	RADIATION TAGING	A		
	SURMERGENCE	S		
PHYS DNG REF: CAR 2166 G452	FSAR ENV CAT:			
PHYS DNG LIC:	10588 CATEG.:			
MOUNTING	APPENDIX E			
EQ. DUC. LUC: W P.O. 435917				



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION		METHOD	H/M	OUTS	ITEMS
	PARAMETER	ACTUAL	DEM.	QUALIF.	ACTUAL	DEM.				
TAG NO: TE-1RC 1329 SB	OPERABILITY	40 YEARS			OPERABILITY					ACCEL TIME
	ITY	NORMAL			REVIEW					
EQUIPMENT: TEMP. ELEMENT	NORM/TEST	1 YEAR								ACCEL TEMP
TYPE	DBA	POST DBA								
COMPONENT:	TEMPERATURE	120°F NORM			FSAR TABLE					REPLACEMENT
	URE	FSAR FIG.			19.4.0-1			H		
		3.11.4-1			FSAR FIG.					
		FOR DBA			3.11.4-1					
MANUFACTURER: MINCO	PRESSURE	ATMOS. NORM.			FSAR SECT.					MAINTAIN.
		FSAR FIG.			3.11.6 NORM.					
		3.11.8-1			FIG.			H		SUBCOMPONENTS
		FOR DBA			3.11.6-1 (DBA)					
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM.			FSAR TABLE					
		100% DBA			19.4.0-1 NORM.			H		
MODEL AND SERIAL #					FSAR SECT.					
					3.11.4.3 (DBA)					
FUNCTIONS: RVLIS CAPILLARY & SERVICE FROM SEAL TABLE TEMP.	CHEMICAL SPRAY	2000-2100 PPM BORON			FSAR SECT.					
		IPH 8.5-11.0			3.11.5.1			H		
ACCUM. SPEC: N/A	H GAMMA	1.2 EG			FSAR FIG.					
	A BETA	3.3 E7			3.11B 20					
	D SHIELD	100% BETA			CONT. RAD.			H		
	T.I.D.	1.25 EG			ZONE C3					
SPECIFICATIONS:	AGE-				110 CFR 50					SAFETY FUNCTIONS: SEE ESE-42 TAB B
P.O. # 435917 CND # 15H # 342	INST LIFE	40 YEARS			PARAGRAPH 50.51					
PLANT LOC.: C.B.	(PER 523-1974 DEF.)									
COORDINATES X=	SURMERGED	228.3			FSAR SECTION 13.6					AUTH. REFERENCE: M.J.H.
Y=										
Z= 248-6										
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: ESE-42			
INSTAL. REF: BY FIELD	OPERABILITY	O ESE-42								
QUALIF EXEMPT: N/A	TEMPERATURE	T								
QUALIF STATUS	PRESSURE	P								
	REL. HUMIDTY	H								
	CHEM. SPRAY	C								
	RADIATION	R								
PHYS DNG REF: CAR 266451	DAGING	A								
PHYS DNG LUCI: H-15	SURMERGENCE	S								
MOUNTING										
EQ. DUC. LUCI: W P.O. 435917	FSAR ENV CAT: 10588 CATEG. 1		REFERENCES: FLOW DIAG. CAR 2165 9844				REVISION # : DATE :			
	APPENDIX E						SYSTEM: (RVLIS) REACTOR COOLANT TAG: TE-1RC 1329 SB			

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEH.	QUALIF.			
TAG NO: NE-41 (POWER RANGE)	OPERABILITY	40 YEARS			OPERABILITY REVIEW		ACCEL TIME
EQUIPMENT: EXCORE NUCLEAR INSTRUMENTATION	DBA	NORMAL 1 YEAR POST DBA					ACCEL TEMP
COMPONENT: NEUTRON DETECTOR	TEMPERATURE	120°F NORM 380°F FOR DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		REPLACEMENT
MANUFACTURER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA			FSAR SECT. 3.11.6 NORM. { FIG. 3.11.6-1 (DBA)		MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM. 100% DBA			FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)		SUBCOMPONENTS
MODEL AND SERIAL #	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1		
FUNCTIONS & SERVICE	R GAMMA A BETA D SHIELD	1.3E7 3.7E8 T.I.D.			FSAR APP. 3.11B-18 CONT. RAD. ZONE CO		
ACCUM. SPEC: N/A	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS			10 CFR 50 PARAGRAPH 50.51		SAFETY FUNCTION
ACCUM. DEH.: N/A	SUBMERGED	228.3			FSAR SECTION 13.6		AUTH. REFERENCE
SPECIFICATIONS:							
P.O # 177181 CND # 1SH*63							
PLANT LOC.: C.B.							
COORDINATES X- Y- Z-							
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE	
INSTAL. REF:	OPERABILITY	O	REFERENCES:				
QUALIF EXEMPTN:	TEMPERATURE	T					
QUALIF:	PRESSURE	P					
STATUS:	REL. HUMIDTY	H					
:	CHEM. SPRAY	C					
:	RADIATION	R					
PHYS DMG REF:	AGING	A				REVISION #	
PHYS DMG LOC:	SUBMERGENCE	S				DATE	
MOUNTING:							
EQ. DUC. LOC:	FSAR ENV CAT:					SYSTEM	
	10500 CATEG.:					REACTOR PROTECTION SYS.	
	APPENDIX E:					TAG NE-41	

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIFICATION METHOD	N/M	OUTS	ITEMS
	PARAMETER	ACTUAL					
TAG NO: NE-42 (POWER RANGE)	OPERABILITY	40 YEARS	OPERABILITY REVIEW				ACCEL TIME
EQUIPMENT: EXCORE NUCLEAR INSTRUMENTATION	NORM/TEST	1 YEAR					ACCEL TEMP
COMPONENT: NEUTRON DETECTOR	DBA	POST DBA					REPLACEMENT
MANUFACTURER: WESTINGHOUSE	TEMPERATURE	120°F NORM 380°F FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1				MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA	FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1 (DBA)				SUBCOMPONENTS
MODEL AND SERIAL #	RELATIVE HUMIDITY	40% NORM. 100% DBA	FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)				
FUNCTIONS & SERVICE	CHEMICAL SPRAY	2000-2100 PPM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1				
ACCUR. SPEC: N/A	R GAMMA	1.3E7	FSAR APP 3.11B-18				
ACCUR. DEM.: N/A	A BETA	3.7E8	CONT. RAD. ZONE CO				
SPECIFICATIONS:	D SHIELD	Y.I.D.					
P.O. # 177181 CHD # 1 SH # 66	AGE-INST LIFE	40 YEARS	10 CFR 50 PARAGRAPH 50.51				SAFETY FUNCTION
PLANT LOC.:	(PER 323-1974 DEF.)						
COORDINATES X- Y- Z-	SUBMERGED	228.3	FSAR SECTION 3.6				AUTH. REFERENCE
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
INSTAL. REFS:	OPERABILITY	O					
QUALIF EXEMPT:	TEMPERATURE	T					
QUALIF:	PRESSURE	P					
STATUS:	REL. HUMIDTY	H					
	CHEM. SPRAY	C	REFERENCES:				
	RADIATION	R					
PHYS DNG REFS:	AGING	A					REVISION #
PHYS DNG LUCI:	SUBMERGENCE	S					DATE
MOUNTING:							
EQ. DUC. LUCI:	FSAR ENV CAT:						SYSTEM: REACTOR PROTECTION SYS.
	10588 CATEG.:						TAG: NE-42
	APPENDIX E						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: NE-43 (POWER RANGE)	OPERABILITY	40 YEARS	OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT TYPE: EXCORE NUCLEAR INSTRUMENTATION	NORM/TEST DBA	NORMAL 1 YEAR POST DBA				ACCEL TEMP
COMPONENT: NEUTRON DETECTOR	TEMPERATURE	120°F NORM 380°F FOR DBA	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11.4-1			REPLACEMENT
MANUFACTURER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)			MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM. 100% DBA	FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			SUBCOMPONENTS
MODEL AND SERIAL #	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1			
FUNCTIONS & SERVICE	R GAMMA A BETA D SHIELD T.I.D.	1.3E7 3.7E8	FSAR APP 3.11B-18 CONT. RAD. ZONE 20			
ACCUR. SPEC: N/A	AGE- INST LIFE (PER 323-1974 DEF.)	40 YEARS	10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION
ACCUR. DEM.: N/A	SUBMERGENCE	228.3	FSAR SECTION 3.6			AUTH. REFERENCE
SPECIFICATIONS:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
P.O. # 177181 CND # SH # 67	OPERABILITY	O	REFERENCES:			
PLANT LOC.:	TEMPERATURE	T				
COORDINATES X- Y- Z-	PRESSURE	P				
INSTALLED (Y/M):	REL. HUMIDITY	H				
INSTAL. REF:	CHEM. SPRAY	C				
QUALIF. EXEMPT:	RADIATION	R	REVISION # DATE SYSTEM: REACTOR PROTECTION SYS. TAG: NE-43			
QUALIF. STATUS:	AGING	A				
PHYS DNG REF:	SUBMERGENCE	S				
PHYS DNG LUC:	FSAR ENV CAT:					
MOUNTING:	10588 CATEG.:					
EDUC. LUC:	APPENDIX E					

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOC. QUALIF.	DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS	
	PARAMETER	ACTUAL		ACTUAL	DEH. QUALIF.				
TAG NO: NE-44 (POWER RANGE)	OPERABILITY	40 YEARS	OPERABILITY REVIEW					ACCEL TIME	
EQUIPMENT: EXCORE NUCLEAR INSTRUMENTATION	NORM/TEST DBA	NORMAL 1 YEAR POST DBA						ACCEL TEMP	
COMPONENT: NEUTRON DETECTOR	TEMPERATURE	120°F NORM 380°F FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1					REPLACEMENT	
MANUFACTURER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA	FSAR SECT. 3.11.6 NORM. { FIG. 3.11.6-1 (DBA)					MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	40% NORM. 100% DBA	FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)					SUBCOMPONENTS	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1						
ACCUM. SPEC: N/A	R GAMMA A BETA D SHIELD T.I.D.	1.3E7 3.7E8	FSAR APP. 3.11B-18 CONT. RAD. ZONE 20						
ACCUM. DEM.: N/A	AGE- INST LIFE (PER 323- 1974 DEF.)	40 YEARS	110 CFR 50 PARAGRAPH 50.51					SAFETY FUNCTION	
P.O. # 177181 CND # SH#69	SUBMERGED	228.3	FSAR SECTION 13.6					AUTH. REFERENCE	
PLANT LOC.:									
COORDINATES X- Y- Z-									
INSTALLED (Y/N):									
INSTALL. REF:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE		
QUALIF EXEMPT:	OPERABILITY	O	REFERENCES:						
QUALIF:	TEMPERATURE	T							
STATUS:	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DNG REF:	AGING	A					REVISION #		
PHYS DNG LUC:	SUBMERGENCE	S					DATE		
MOUNTING:							SYSTEM # REACTOR PROTECTION SYS.		
EQ. DUC. LUC:	FSAR ENV CAT:						TAG # NE-44		
	19588 CATEG.:								
	APPENDIX E								



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOC. QUALIF.	DOCUMENTATION		QUALIF. METHOD	N/M/OUTS ITEMS		
	PARAMETER	ACTUAL		ACTUAL	DEI. QUALIF.				
TAG NO: <i>1RH-V500SB-1</i>	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6 & 4.6 PAGE 11 & 25	TYPE TEST	NONE	ACCEL TIME: 15092 HOURS	
EQUIPMENT: <i>VALVE GATE</i>	NDIRH/TEST	1 YEAR	1 YEAR					ACCEL TEMP: 180°C	
COMPONENT: <i>MOTOR</i>	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 19.4.0-1	SRS TAB E PAGE 1C THRU 6C	COMB. TYPE TEST & SUPP. REVIEW	H NONE	REPLACEMENT: 40 YEARS	
MANUFACTURER: <i>LIMITORQUE</i>	FOR DBA	385°F DBA	385°F DBA	FSAR FIG. 3.11.4-1				MAINTAIN.	
MAJOR SUPPLIER: <i>WESTHS.</i>	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. & FIG.	REPORT 600456 PAGE 10 & 14	COMB. TYPE TEST & SUPP. REVIEW	H NONE	SUBCOMPONENTS: TORQUE & LIMIT SW.	
MODEL AND SERIAL: <i>SMB-1</i>	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 4.4.3 PAGE 18	COMB. TYPE TEST & SUPP. REVIEW	H NONE	SEE TAB E, PAGE 1E	
FUNCTIONS & SERVICE: <i>RESIDUAL HEAT REMOVAL - SERVING VALVE 1RH-V500SB-1</i>	CHEMICAL SPRAY	2000-2100 PPM BORON	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	H NONE		
ACCUR. SPEC: <i>N/A</i>	H GAMMA	1.2 EG	1130 EG	FSAR APP. 3.11.B-21	TEST REPORT SEC. 4.3 PAGE 12	COMB. TYPE TEST & SUPP. REVIEW	H NONE		
ACCUR. DEF.: <i>N/A</i>	A BETA	3.4 EG	174 EG	CONT. RAD. ZONE C5	SRS TAB D PAGE 1G THRU 3G				
SPECIFICATIONS: <i>W.PRM. SPEC. 952065 05 N.E. SPEC. 678852 02</i>	AGE - INST LIFE (PER 325-1974 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SEC. 3.1.1 PAGE 3	COMB. TYPE TEST & SUPP. REVIEW	H NONE	SEE TAB E PAGE 1F	
P.O. #: <i>173662</i> CHD # <i>15H#0330</i>	PLANT LOC.: <i>C.B. 21</i>							SAFETY FUNCTION: SEE TAB "B" OF HE-1	
COORDINATES: <i>X-1520.0 Y-1702.0 Z-251.0</i>	SURMERGED	228.3	N/A	FSAR SECTION 3.6	N/A				
INSTALLED (Y/N): <i>BY FLD.</i>	YES				SRS TAB E PAGE 1A	N/A	NONE	AUTH. REFERENCE: M. J. H.	
QUALIF EXEMPT: <i>N/A</i>	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1		
QUALIF: <i>QUALIFIED AWAITING STATUS CONFIRMATORY DATA</i>	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G-824 RHR & SAFETY INJ. PIPING CAR-2165 G-155 LIMITORQUE TEST REPORT 600456						
	TEMPERATURE	T							
	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DRG REF: <i>CAR-2165 G-155</i>	AGING	A					REVISION # : 0		
PHYS DRG LUC: <i>TOTAL EQUIP. LIST</i>	SURMERGENCE	S					DATE: 14-21-84		
MOUNTING							SYSTEM: <i>RESIDUAL HEAT REMOVAL</i>		
EDUC. LUC: <i>BY P.O. 173662</i>	ISAR ENV CAT: 1959A CATEG. 1A						TAG: <i>1RH-V500SB-1</i>		
	APPENDIX E								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M IUTS ITEMS			
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL				DEH. QUALIF.	
TAG NO: <i>IRH-V501SA-1</i>	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6 & 4.6 PAGE 11 & 25	/	NONE	ACCEL TIME: 15092 HOURS	
EQUIPMENT: <i>VALVE GATE</i>	NDHM/TEST	1 YEAR	1 YEAR					ACCEL TEMP: 180°C	
COMPONENT: <i>MOTOR</i>	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 19.4.0-1	SRS TABLE PAGE 1C THRU 6C	COMB. TYPE TEST & SUPP. REVIEW	H	REPLACEMENT: 40 YEARS	
MANUFACTURER: <i>LIMITORQUE</i>	FSAR FIG. 3.11.4-1 FOR DBA		1385°F DBA	3.11.4-1				MAINTAIN.	
MAJOR SUPPLIER: <i>WESTHS.</i>	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1(DBA)	REPORT 600456 PAGE 10 & 14	COMB. TYPE TEST & SUPP. REVIEW	H	SUBCOMPONENTS: TORQUE & LIMIT SW.	
MODEL AND SERIAL #: <i>SMB-1</i>	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 4.4.3 PAGE 18	COMB. TYPE TEST & SUPP. REVIEW	H	SEE TAB E, PAGE 1E	
FUNCTIONS & SERVICE: <i>RESIDUAL HEAT REMOVAL - SERVING VALVE IRH-V501SA-1</i>	CHEMICAL SPRAY	2000-2100 PPM BORON	1300 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	H	NONE	
ACCUM. SPEC: <i>N/A</i>	PH	8.5-11.0	10.5-11.1		SRS TABLE PAGE 1D				
ACCUM. DEH.: <i>N/A</i>	D GAMMA	1.2 EG	130 EG	FSAR APP 3.11.8-2	TEST REPORT SEC. 4.3	COMB. TYPE TEST & SUPP. REVIEW	H	SEE TAB E PAGE 1G	
SPECIFICATIONS: <i>W. PROJ. SPEC. 952065 05 678852 02</i>	A BETA	3.3 E7	74 EG	CONT. RAD. ZONE C3	PAGE 12				
P.U. #: <i>173662</i> CND # <i>1SN#0330</i>	AGE - INST LIFE (PER 323-1974 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SEC. 3.1.1 PAGE 3	COMB. TYPE TEST & SUPP. REVIEW	/	SEE TAB E PAGE 1F	
PLANT LOC.: <i>C.B. 11</i>	SURMERGED	228.3		FSAR SECTION 3.6	N/A				
COORDINATES: <i>X-1548.0 Y-1682.0 Z-230.0</i>		YES	N/A		SRS TABLE PAGE 1A	N/A		AUTH. REFERENCE: M.J.H.	
INSTALLED (Y/M): <i>BY FLD.</i>	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1		
QUALIF EXEMPT: <i>N/A</i>	OPERABILITY	O HE-1	REFERENCES: <i>FLOW DIAG. CAR-2165 G-824</i> <i>RHR & SAFETY INJECTION SYS. CAR-2165 G-155</i> <i>LIMITORQUE TEST REPORT 600456</i>						
QUALIF: <i>QUALIFIED, AWAITING</i>	TEMPERATURE	T							
STATUS: <i>CONFIRMATORY DATA</i>	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
PHYS DNG REF: <i>CAR-2165 G-155</i>	RADIATION	R					REVISION # : 0		
PHYS DNG LUC: <i>TOTAL EQUIP. LIST</i>	AGING	A					DATE: <i>4-21-84</i>		
MOUNTING	SURMERGENC.	S					SYSTEM: <i>RESIDUAL HEAT REMOVAL</i>		
EV. DUC. LUC: <i>W.P.O. 173662</i>	ISAR ENV CAT: 19500 CATEG. 1A						TAG: <i>IRH-V501SA-1</i>		
	APPENDIX F								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	UNITS	ITEMS	
	PARAMETER	ACTUAL	DEH.	QUALIF.					ACTUAL
TAG NO: <i>IRH-V502SB-1</i>	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6			ACCEL TIME: 15092 HOURS	
EQUIPMENT TYPE: <i>VALVE GATE</i>	NORM/TEST DBA	1 YEAR POST DBA	1 YEAR POST DBA		4.6 PAGE 11 & 25			ACCEL TEMP: 180°C	
COMPONENT: <i>MOTOR</i>	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 19.4.0-1	SRS TABLE PAGE 1C THRU 16C	COMB. TYPE TEST & SUPP. REVIEW	4	NONE	
MANUFACTURER: <i>LIMITORQUE</i>	FSAR FIG. 3.11.1	FOR DBA	1385°F DBA	3.11.4-1				REPLACEMENT: 40 YEARS	
MAJOR SUPPLIER: <i>WESTHS.</i>	PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1 (DBA)	REPORT 600456 PAGE 10 & 14	COMB. TYPE TEST & SUPP. REVIEW	4	NONE	
MODEL AND SERIAL: <i>SMB-1</i>	FSAR FIG. 3.11.8	FOR DBA	70 PSIG DBA		SRS TABLE PAGE 2B			MAINTAIN.:	
FUNCTION & SERVICE: <i>RESIDUAL HEAT REMOVAL - SERVING VALVE IRH-V502SB-1</i>	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 4.4.3 PAGE 18	COMB. TYPE TEST & SUPP. REVIEW	4	SEE TABLE PAGE 1E	
	FSAR FIG. 3.11.4.3	(DBA)			SRS TABLE PAGE 1E			SUBCOMPONENTS: TORQUE & LIMIT SW.	
	CHEMICAL SPRAY	2000-2100 PPM BORON	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	4	NONE	
ACCUM. SPEC: <i>N/A</i>	PH 8.5-11.0	PH 10.5-11.1			SRS TABLE PAGE 1D				
ACCUM. DEF: <i>N/A</i>	H GAMMA	1.2 EG	130 EG	FSAR APP. 3.11.8-2	TEST REPORT SECT. 4.3 PAGE 12	COMB. TYPE TEST & SUPP. REVIEW	4	SEE TABLE PAGE 1G	
SPECIFICATIONS: <i>W.P.P.O.J. SPEC. 952065 02 W.E. SPEC. 678852 02</i>	D SHIELD	100% BETA	100% BETA	CONT. RAD. ZONE CS	SRS TABLE FIG THRU 3G				
P.O. # <i>173662</i> CND # <i>15A.0329</i>	AGE - INST LIFE	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 3.1.1 PAGE 3	COMB. TYPE TEST & SUPP. REVIEW		SEE TABLE PAGE 1F	
PLANT LOC.: <i>C.B. 21</i>	PER 325-1979 DEF.)				SRS TABLE PAGE 1F THRU 3E			SAFETY FUNCTION: SEE TAB 'B' OF NE-1	
COORDINATES: <i>X=1480.0 Y=1702.0 Z=251.0</i>	SURMERGED	228.3		FSAR SECTION 3.6	N/A				
INSTALLED (Y/N):	YES		N/A		SRS TABLE PAGE 1A	N/A		NONE	
INSTALL. REF: <i>BY FLD.</i>	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1		
QUALIF EXEMPT: <i>N/A</i>	OPERABILITY	O HE-1	REFERENCES: <i>FLOW DIAG. CAR-2165G-824 RHR & SAFETY INJ. SYS. CAR-2165G-155 LIMITORQUE TEST REPORT 600456</i>						
QUALIF: <i>QUALIFIED, AWAITING STATUS CONFIRMATORY DATA</i>	TEMPERATURE	T							
	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DNG REF: <i>CAR-2165G-155</i>	AGING	A							
PHYS DNG LUC: <i>TOTAL EQUIP. LIST</i>	SURMERGENCE	S							
HOUSING									
EU. DUC. LUC: <i>W.P.O. 173662</i>	FSAR ENV CAT: 10588 CATEG. 1A	APPENDIX E							
							REVISION # : 0		
							DATE: 14-21-84		
							SYSTEM: <i>RESIDUAL HEAT REMOVAL</i>		
							TAG: <i>IRH-V502SB-1</i>		

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M/ UITS	ITEMS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
TAG NO: IRH-V503SA-1	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6 & 4.6 PAGE 11 & 25		ACCEL TIME: 15092 HOURS
EQUIPMENT TYPE: VALVE GATE	NORM/TEST DBA	1 YEAR POST DBA	1 YEAR POST DBA				ACCEL TEMP: 180°C
COMPONENT: MOTOR	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 19.4.0-1	SRS TABLE PAGE 1C THRU 16C	COMB. TYPE TEST & SUPP. REVIEW	REPLACEMENT: 40 YEARS
MAINTAL THER: LIMITORQUE		FSAR FIG. 3.11.4-1 FOR DBA	1385°F DBA	3.11.4-1			MAINTAIN.
MAJOR SUPPLIER: WESTHS.	PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.6 NORM. & FIG. 3.11.6-1 (DBA)	REPORT 600456 PAGE 10 & 14	COMB. TYPE TEST & SUPP. REVIEW	SUBCOMPONENTS: TORQUE & LIMIT SW.
MODEL AND SERIAL: SMB-1	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM	TEST REPORT SECT. 4.4.3 PAGE 18	COMB. TYPE TEST & SUPP. REVIEW	SEE TAB E, PAGE 1E
FUNCTION & SERVICE: RESIDUAL HEAT REMOVAL - SERVING VALVE IRH-V503SA-1	CHEMICAL SPRAY	2000-2100 PPM BORON	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	
ACCUR. SPEC: N/A		PH 8.5-11.0	PH 10.5-11.1		SRS TABLE PAGE 1D		
ACCUR. DEM.: N/A	R GAMMA	1.2 EG	130 EG	FSAR APP 3.11.8-20	TEST REPORT SEC. 4.3 PAGE 12	COMB. TYPE TEST & SUPP. REVIEW	SEE TAB E PAGE 1G
SPECIFICATIONS: W.E. SPEC. 678852 02	D SHIELD	100% BETA	100% BETA	CONT. RAD. ZONE C3	SRS TAB D FIG THRU 3G		
P.O. # 173662 CHD # ISM#0329	AGE-INST LIFE (PER 323-1979 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SEC. 3.1.1 PAGE 3	COMB. TYPE TEST & SUPP. REVIEW	SEE TAB E PAGE 1F
PLANT LOC.: C.B. 11					SRS TABLE PAGE 1F THRU 3F		SAFETY FUNCTION: SEE TAB B OF HE-1
COORDINATES X- 1457.0 Y- 1676.0 Z- 230.0	SUBMERGED	228.3		FSAR SECTION 3.6	N/A		
INSTALLED (Y/N):		YES	N/A		SRS TABLE PAGE 1A		AUTH. REFERENCE: M.J.H.
INSTALL. REF: BY FID.	PARA-NETEN	SUPPL. REVIEW		OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1
QUALIF EXEMPT: N/A	OPERABILITY	O HE-1		REFERENCES: FLOW DIAGRAM CAR-2165 & 824 RNR & SAFETY INJECTION SYS. CAR-2165 & 155 LIMITORQUE TEST REPORT 600456			
QUALIF: QUALIFIED, AWAITING CONFIRMATORY DATA	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DRG REF: CAR-2165 G-155	AGING	A					
PHYS DRG LUC: TOTAL EQUIP. LIST	SUBMERGENCE	S					
MOUNTING:	FSAR ENV CAT:						
EU.DUC.LUC: W.P.O. 173662	OSRD CATEG. A						
	APPENDIX F						
					REVISION # 10		
					DATE: 14-21-84		
					SYSTEM: RESIDUAL HEAT REMOVAL		
					TAG: IRH-V503SA-1		



EQUIPMENT DESCRIPTION	ENVIRONMENT		DEM. QUALITY	DOCUMENTATION		QUALIF. METHOD	N/MI UNITS	ITEMS	
	PARAMETER	ACTUAL		ACTUAL	DEM. QUALIF.				
TAG NO: 2RHV 506 SB-1	OPERABILITY	40 YEARS		OPERABILITY				ACCEL TIME	
	ITY	NORMAL		REVIEW					
EQUIPMENT: VALVE TYPE	INDM/TEST	1 YEAR						ACCEL TEMP	
	DBA	POST DBA							
COMPONENT: MOTOR OPERATOR	TEMPERATURE	104° F NORM		FSAR TABLE				REPLACEMENT	
		1/4 DBA		FSAR FIG.					
MANUFACTURER: LIMITORQUE	PRESSURE	ATMOS. NORM						MAINTAIN.	
		1/4 DBA							
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM		FSAR TABLE				SUBCOMPONENTS	
		100% DBA		19.4.0-1 NORM					
MODEL AND SERIAL #				FSAR SECT.					
FUNCTIONS & SERVICE				3.11.4.3(DBA)					
ACCUM. SPEC: N/A	CHEMICAL SPRAY	N/A							
ACCUM. DEM.: N/A	R GAMMA	1.9 EG		FSAR FIG.					
	A BETA	NEGLIGIBLE		3.11B-23					
	D SHIELD	100% BETA		CONT. RAD					
	T.I.D.	2.0 EG		ZONE R4					
SPECIFICATIONS:	AGE-INST LIFE	40 YEARS		10 CFR 50				SAFETY FUNCTION	
P.O #	(PER 323-1974 DEF.)			PARAGRAPH 50.51					
PLANT LOC.: AB 21	SURMERGED	191'-0							
COORDINATES X= 1567.0 Y= 1579.0 Z= 236.0		YES						AUTH. REFERENCE	
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:		
INSTALL. REF:	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR 2165 G824						
QUALIF EXEMPT:	TEMPERATURE	T							
QUALIF:	PRESSURE	P							
STATUS:	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DNG REF: CAR 2165 G152	DAGING	A					REVISION #:		
PHYS DNG LUC: K-17	SURMERGENCE	S					DATE:		
MOUNTING:	ISAH ENV CAT:	A					SYSTEM: RESIDUAL HEAT REMOVAL		
EDUC. LUC:	1958 CATEG:						TAG: 2RHV 506 SB		
	APPENDIX E								

UTILITIES	ENVIRONMENT		TEST	CAPACITY	900 MW(E)	CESD-	
EQUIP. DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/HI UNITS	ITEMS
	PARAMETER	ACTUAL	ACTUAL	DEM. QUALIF.			
TAG NO: 2RHV507 SA-1	OPERABILITY	40 YEARS	OPERABILITY	REVIEW			ACCEL TIME
EQUIPMENT: VALVE	NORM/TEST	1 YEAR					ACCEL TEMP
COMPONENTS: MOTOR OPERATOR	DBA	POST DBA					REPLACEMENT
MAINTENANCE: LIMITORQUE	TEMPERATURE	104°F NORM	FSAR TABLE				MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	DBA	4 DBA	FSAR FIG.				SUBCOMPONENTS
MODEL AND SERIAL #	PRESSURE	ATMOS. NORM					
FUNCTIONS & SERVICE	DBA	4 DBA					
ACCUM. SPEC: N/A	RELATIVE HUMIDITY	20-90%	FSAR TABLE				
ACCUM. DEM.: N/A	HUMIDITY	100% DBA	19.4.0-1 NORM				
SPECIFICATIONS:	CHEMICAL SPRAY	N/A	FSAR SECT.				
P.O. #			3.11.4.3 (DBA)				
PLANT LOC.: AB 21	R GAMMA	1.9 EG	FSAR FIG.				
COORDINATES X=1434.0	A BETA	NEGLECTIBLE	3.11B-23				
Y=1579.0	D SHIELD	100% BETA	CONT. RAD.				
Z=236.0	T.I.D.	2.0 EG	ZONE R4				
INSTALL. DATE	AGE						
QUALIF. EXEMPT:	INST LIFE	40 YEARS	10 CFR 50				
QUALIF. STATUS	(PER 323-1979 DEF.)		PARAGRAPH 50.51				
PHYS DNG HFF: CAR 2165 G152	SUBMERGED	191-0					
PHYS DNG LUC: K-6	YES						
MOUNTING							
EDUC. LUC:							
OTHER EQUIPMENT THIS CES APPLIES TO:	PARAMETER	SUPPL. REVIEW	REFERENCES: FLOW DIAG. CAR 2165 G 824			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
	OPERABILITY	O					
	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
	AGING	A					
	SUBMERGENCE	S					
	FSAR ENV CAT	A					
	1958 CATEG.						
	APPENDIX E						
						REVISION #	
						DATE	
						SYSTEM: RESIDUAL HEAT REMOVAL	
						TAG: 2RHV 507 SA-1	



EQUIPMENT DESCRIPTION	ENVIRONMENT		QUALIF.	DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL		ACTUAL	DEH. QUALIF.			
TAG NO: 1A 5A (ITEM APCH)	OPERABILITY	40 YEARS	3.8 YEARS	OPERABILITY REVIEW	TEST REPORT SECT. 5.2	TYPE TEST SUPP.		ACCEL TIME: 168 HOURS
EQUIPMENT: PUMP	NOHM/TEST DBA	1 YEAR POST DBA	NORM. DBA		SRS TAB E PAGE 1 THRU 3B	REVIEW		ACCEL TEMP: 210°C
COMPONENT: MOTOR	TEMPERATURE	104°F NORM 104°F DBA	104°F FOR NORM. DBA	FSAR TABLE 19.4.0-1 FSAR FIG. 3.11B-2	TEST REPORT SECT. 5.7	TYPE TEST SUPP.	M	REPLACEMENT: 3.8 YEARS
MANUFACTURER: WESTINGHOUSE	PRESSURE	ATMOS. DBA NORM.	ATMOS.	FSAR SECT.	DATA PACKAGE SECT. 1.7/2.6	TYPE TEST SUPP.	M	MAINTENANCE: SEE MANUAL SUBCOMPONENTS: LUBRICANTS, BEARINGS
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20%-90% NORM 100% DBA	100%	FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	TEST REPORT SECT. 5.6	TYPE TEST SUPP.	M	
FUNCTION: CENTRIFUGAL & SERVICE CHARGING PUMP (SEE TAB B)	CHEMICAL SPRAY	N/A	N/A	FSAR SECT. 3.11-	DATA PACKAGE SECT. 1.7/2.6	N/A	N/A	
ACCUM. SPEC: N/A	R GAMMA A BETA D SHIELD	8.9 E 4	50 E 7	FSAR FIG. 3.11B-23	TEST REPORT SECT. 5.1	TYPE TEST SUPP.		SEE SRS PAGE 1E
ACCUM. DEM.: N/A	T.I.D.	1.89 E 5	50 E 7	ZONE RS	SRS TAB E PAGE 1, 2, 3E	REVIEW	H	
SPECIFICATIONS: W. PROJ. SPEC. 952267 R1 ME. SPEC. 677474	AGE - INST LIFE (PER 523-1978 DEF.)	40 YEARS	3.8 YEARS NORM. DBA	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 5.2	TYPE TEST SUPP.		SAFETY FUNCTIONS: SEE TAB B OF AE-2
P.O. # 189501 CND # 1221	BURNEGED	191° 0	N/A	FSAR SECT. 3.6A	N/A SRS TAB E	N/A		AUTH. REFERENCE: M.J.H.
PLANT LOC.: R. AUX. BLDG. 21	YES							
COORDINATES X=1487 Y=1583-8 Z=238-11								
INSTALLED (Y/M): 4-11-84 100% INSTAL. MFP: BY FIELD QUALIF. EXEMPT: N/A	PARAMETER	SUPPL. REVIEW		OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: AE-2
QUALIF. QUALIFIED	OPERABILITY	O AE-2		REFERENCES: FLOW DIAG. CAR-2165 G W. TEST REPORT A02A W. DATA PACKAGE AE-2				REVISION # 10 DATE 15-1-84 SYSTEM SAFETY INJECTION TAG 1A 5A
STATUS	TEMPERATURE	T						
	PRESSURE	P						
	REL. HUMIDITY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
PHYS DNG MFC CAR 2165 G140	AGING	A						
PHYS DNG LUCI CAR 2166 SKE-133	SURMERGENCE	S						
MOUNTING: SEE PUMP DETAIL DWG.	FSAR ENV CAT:	B						
EN. DUC. LUCI W. P.O. 189501	19580 CATEG.							
	APPENDIX E	CAT.						



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	UNITS	ITEMS
	PARAMETER	ACTUAL	DEM.	QUALIF.				
TAG NO: 1BSB (ITEM APCH)	OPERABILITY	40 YEARS	3.8 YEARS	OPERABILITY	TEST REPORT SECT. 5.2			ACCEL TIME: 168 HOURS
EQUIPMENT: PUMP TYPE	NORM/TEST	NORMAL	NORM. (DBA)	REVIEW	SRS TAB E PAGE 1 THRU 3B		NONE	ACCEL TEMP: 210°C
COMPONENT: MOTOR	TEMPERATURE	104°F NORM	104°F FOR	FSAR TABLE 9.4.0-1	TEST REPORT SECT. 5.7		NONE	REPLACEMENT: 3.8 YEARS
MANUFACTURER: WESTINGHOUSE	DBA	POST DBA	NORM. (DBA)	FSAR FIG. 3.11B-2	SRS TAB E PAGE 1C		M	MAINTAIN: SEE INSTRUCTION MANUAL
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.	ATMOS.	FSAR SEC.	DATA PACKAGE SECT. 1.7 (2.6)		NONE	SUBCOMPONENTS: LUBRICANT, BEARINGS
MODEL AND SERIAL #	RELATIVE HUMIDITY	20%-90% NORM	100%	FSAR TABLE 9.4.0-1 NORM	TEST REPORT SECT. 5.6		M	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A	N/A	FSAR SECT. 3.11.4.3 (DBA)	SRS TAB E PAGE 2D		NONE	
ACCUM. SPEC: N/A				FSAR SECT. 3.11	DATA PACKAGE SECT. 1.7 (2.6)		NONE	
ACCUM. DEM.: N/A	R GAMMA	8.9 E4	50 E7	FSAR FIG. 3.11B-23	TEST REPORT SECT. 5.1		H	SEE SRS PAGE 1E
SPECIFICATIONS:	A BETA	100% BETA		CONT. RAD. ZONE RS	SRS TAB E PAGE 1, 2 (3E)			
P.O. #	D SHIELD	1.89 E5	50 E7	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 5.2			SAFETY FUNCTIONS: SEE TAB B OF AE-2
PLANT LOC.:	T.I.D.				SRS TAB E PAGE 1 THRU 3B		NONE	
COORDINATES X=	AGE-							
Y=	INST LIFE	40 YEARS	3.8 YEARS					
Z=	(PER 323- 1978 DEF.)		NORM. (DBA)					
INSTALLED (Y/M):	SURMERGED	191-0	N/A	FSAR SECT. 3.6A	N/A		NONE	AUTH. REFERENCE: M.J.H.
QUALIF EXEMPT: N/A	YES				SRS TAB E			
QUALIF: QUALIFIED	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:					QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: AE-2
STATUS	OPERABILITY	O AE-2	REFERENCES: FLOW DIAG. CAR-2165 G W. TEST REPORT A02A W. DATA PACKAGE AE-2					
	TEMPERATURE	T						
	PRESSURE	P						
	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R				REVISION # 10		
PHYS DNG REF: CAR 2165 G140	AGING	A				DATE 15-1-84		
PHYS DNG LOC: CAR 2166 SKE-133	SURMERGENCE	S				SYSTEM: SAFETY INJECTION		
HOUSING: SEE PUMP DETAIL DMS	ISAR ENV CAT:	B				TAG: 1BSB		
EQUIP. LUC: W. NO. 189501	10500 CATEG.:	CAT.						
	APPENDIX E							



EQUIPMENT DESCRIPTION	ENVIRONMENT		DEM. QUALIF.	DOCUMENTATION		QUALIF. METHOD	I/M/OUTS ITEMS		
	PARAMETER	ACTUAL		ACTUAL	DEM. QUALIF.				
TAG NO: IC-SAB (ITEM APCH)	OPENABILITY	40 YEARS	3.8 YEARS	OPERABILITY REVIEW	TEST REPORT SECT. 5.2	TYPE TEST SUPP REVIEW	NONE	ACCEL TIME: 168 HOURS	
EQUIPMENT TYPE: PUMP	NDHM/TEST DBA	1 YEAR POST DBA	DBA		SRS TABLE PAGE 1 THRU 3B			ACCEL TEMP: 210°C	
COMPONENT: MOTOR	TEMPERATURE	104°F NORM 104°F DBA	104°F NORM DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2	TEST REPORT SECT. 5.7	TYPE TEST SUPP REVIEW	M NONE	REPLACEMENT: 3.8 YEARS	
MANUFACTURER: WESTINGHOUSE	PRESSURE	ATMOS. NORM DBA NORM.	ATMOS.	FSAR SECT.	DATA PACKAGE SECT. 1.7(2.6)	TYPE TEST SUPP REVIEW	M NONE	MAINTAIN. SEE INSTRUCTION MANUAL	
MAJOR SUPPLIER: WESTINGHOUSE					SRS TABLE PAGE 1C	REVIEW	M NONE	SUBCOMPONENTS: LUBRICANT, BEARINGS	
MODEL AND SERIAL #: HSDP 73F69523 35-74	RELATIVE HUMIDITY	20%-90% NORM. 100% DBA	100%	FSAR TABLE 9.4.0-1 NORM	TEST REPORT SECT. 5.6	TYPE TEST SUPP REVIEW	M NONE		
FUNCTION: CENTRIFUGAL & SERVICE CHARGING PUMP				FSAR SECT. 3.11.4.3 (DBA)	SRS TABLE PAGE 2D		M NONE		
	CHEMICAL SPRAY	N/A	N/A	FSAR SECT. 3.11	DATA PACKAGE SECT. 1.7(2.6)	N/A	N/A NONE		
ACCUM. SPEC: N/A					SRS TABLE PAGE 1C				
ACCUM. DEM.: N/A	R GAMMA	8.9E4	50E7	FSAR FIG 3.11B-23	TEST REPORT SECT. 5.1	TYPE TEST SUPP REVIEW	H NONE	SEE SRS PAGE 1E	
	A BETA	100% BETA	~	ZONERS	SRS TABLE PAGE 1,2,3E				
W. PROJ. SPEC. 952269, R1 WE. SPEC. 677474	T.I.D.	1.89 KS	50E7						
P.O # 189501 CND # 1223	AGE	40 YEARS	3.8 YEARS	110 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 5.2	TYPE TEST SUPP REVIEW	NONE	SAFETY FUNCTIONS: SEE TAB B OF AE-2	
PLANT LOC.: R. AUX. BLDG. 21	INST LIFE (PER 323-1974 DEF.)	40 YEARS	NORM. DBA		SRS TABLE PAGE 1 THRU 3B				
COORDINATES X= 1533-6 Y= 1583-8 Z= 238-11	SUBMERGED	191°O	N/A	FSAR SECT. 3.6A	N/A	N/A	NONE	AUTH. REFERENCE: M.J.H.	
INSTALLED (Y/M): 4-11-84 100%		YES			SRS TABLE	N/A			
INSTALL. NEP BYFIELD	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: AE-2		
QUALIF EXEMPT: N/A	OPERABILITY	O AE-2	REFERENCES: FLOW DIAG. CAR-2165 G W. TEST REPORT A02A W. DATA PACKAGE AE-2				REVISION # : 0 DATE : 15-1-84 SYSTEM : SAFETY INJECTION TAG : IC-SAB		
QUALIF: QUALIFIED	TEMPERATURE	T							
STATUS	PRESSURE	P							
	REL. HUMIDITY	H							
	CHEM. SPRAY	C							
PHYS DNG REF: CAR-2165 G 140	RADIATION	R							
PHYS DNG LUC: CAR-2165 KE-133	AGING	A							
MOUNTING: SEE PUMP DETAIL DWG	SUBMERGENCE	S							
EDUC. LUC: W. RD 189501	FSAR ENV CAT:	B							
	10588 CATEG.:								
	APPENDIX E CAT.:								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: TE ISI 0910 A1 SA	OPERABILITY	40 YEARS			OPERABILITY REVIEW	/	ACCEL TIME	
EQUIPMENT: MOTOR	NORM/TEST	1 YEAR					ACCEL TEMP	
COMPONENT: TEMP. ELEMENT (FOR C. CHARGING PMP)	DBA	POST DBA					REPLACEMENT	
MANUFACTURER:	TEMPERATURE	104°F NORM			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2	M	MAINTEN.	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM				/	SUBCOMPONENTS	
MODEL AND SERIAL #	DBA	NORM.				M		
FUNCTIONS & SERVICE	RELATIVE HUMIDITY	20-90% NORM			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	M		
ACCUM. SPEC: N/A	CHEMICAL SPRAY	N/A				/		
ACCUM. DEM.: N/A	R GAMMA	18.9 E4			FSAR FIG. 3.11B-20 ZONE 5	H		
SPECIFICATIONS:	A BETA	100% BETA						
P.O. # 189501 CND # SH. # 220	T.I.D.	11.89 E5						
PLANT LOC.: AB 21	AGE - INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51	/	SAFETY FUNCTION	
COORDINATES X=1485.0 Y=1593.0 Z=236.0	(PER 523-1979 DEF.)							
INSTALLED (Y/H):	SUBMERGED	191.0			FSAR SECT. 3.6	/	AUTH. REFERENCE	
INSTALL. REFS:		YES						
QUALIF EXEMPTN:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE	
QUALIF:	OPERABILITY	O	REFERENCES:					
STATUS:	TEMPERATURE	T						
	PRESSURE	P						
	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
PHYS DNG REFS:	AGING	A					REVISION #	
PHYS DNG LUCI:	EMERGENCY	S					DATE	
MOUNTING:							SYSTEM SAFETY INJECTION	
EQU. DNG LUCI: P.O. 189501	FSAR ENV CAT:						TAG	
	0588 CATEG.:						SITE ISI 0910 A1 SA	
	APPENDIX E							

A/E: EDASCO SERVICES INC.
 UTIL: CAROLINA POWER & LIGHT

FACILITY: SHEARON HARNER NO. 1
 COMPONENT EVALUATION SHEET

ISS: WESTINGHOUSE - PWR
 CAPACITY: 900 MW(E)

REV: 0
 CES:

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION			QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEM.	ACTUAL	DEM.			
TAG NO: TE ISI 0910A2 SW	OPERABILITY	40 YEARS		OPERABILITY			/	ACCEL TIME
EQUIPMENT: MOTOR TYPE	ITY	NORMAL		REVIEW				ACCEL TEMP
	NORM/TEST DBA	1 YEAR						
COMPONENT: TEMP ELEMENT (FOR C. CHARGING PMP)	TEMPERATURE	104° F NORM		FSAR TABLE			/	REPLACEMENT
		104° F DBA		9.4.0-1			M	
MANUFACTURER:				FSAR FIG.				MAINTAIN.
				3.11B-2				
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.					/	SUBCOMPONENTS
		DBA NORM					M	
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM.		FSAR TABLE			/	
		100% DBA		9.4.0-1 NORM				
FUNCTIONS & SERVICE				FSAR SECT.			M	
				3.11.4.3(DBA)				
ACCUM. SPEC: N/A	CHEMICAL SPRAY	N/A					/	
ACCUM. DEM.: N/A	R GAMMA	8.9 E4		FSAR			/	
	A BETA			FIG. 3.11B-20				
SPECIFICATIONS:	D SHIELD	100% BETA		ZONE 5			H	
	T.I.D.	1.89 E5						
P.O. # 189501 CND # 154220	AGE			10 CFR 50			/	SAFETY FUNCTION
	INST LIFE	40 YEARS		PARAGRAPH				
PLANT LOC.: AB 21	(PER 323-1974 DEF.)			50.51				
COORDINATES X=1485.0 Y=1593.0 Z=236.0	SUBMERGED	191.0		FSAR SECT.			/	AUTH. REFERENCE
		YES		3.6				

INSTALL. NEP:	PARAMETER	SUPPL. REVIEW
QUALIF EXEMPT:	OPERABILITY	O
QUALIF:	TEMPERATURE	T
STATUS:	PRESSURE	P
	REL. HUMIDITY	H
	CHEM. SPRAY	C
	RADIATION	R
PHYS DNG NEP:	AGING	A
PHYS DNG LUC:	SUBMERGENCE	S
MOUNTING:		
EDUC. LUC: W.P.O. 189501	FSAR ENV CAT:	
	10500 CATEG.:	
	APPENDIX E	

OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
REFERENCES:	
	REVISION #:
	DATE:
	SYSTEM SAFETY INJECTION
	TAG TE ISI 0910A2 SW

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS	ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.					ACTUAL
TAG NO: TEISI 0910A3 SA	OPERABILITY	40 YEARS			OPERABILITY REVIEW		/		ACCEL TIME
EQUIPMENT: MOTOR	MTY	NORMAL							ACCEL TEMP
EQUIPMENT: MOTOR TYPE	MDHM/TEST DBA	1 YEAR POST DBA							REPLACEMENT
COMPONENT: TEMP ELEMENT (FOR C. CHARGING PMP.)	TEMPERATURE	104°F NORM			FSAR TABLE 19.4.0-1 FSAR FIG. 3.11B-2		M		MAINTAIN.
COMPONENT: TEMP ELEMENT (FOR C. CHARGING PMP.)	URE	104°F DBA							SUBCOMPONENTS
MANUFACTURER:	PRESSURE	ATMOS. NORM.					/		
MAJOR SUPPLIER: WESTINGHOUSE		DBA NORM.					M		
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% Norm. 100% DBA			FSAR TABLE 19.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)		M		
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A					/		
ACCUM. SPEC: N/A	R GAMMA	8.9 E4			FSAR FIG. 3.11B-20 ZONE 5		H		
ACCUM. DEM.: N/A	A BETA D SHIELD	100% BETA							
SPECIFICATIONS:	• T.I.D.	1.89 E5							
P.O. # 189501 CND # 1 SH. # 220	AGE - INST LIFE (PER 323-1979 DEF.)	40 YEARS			10 CFR 50 PARAGRAPH 50.51		/		SAFETY FUNCTION
PLANT LOC.: AB 21									
COORDINATES X=1485.0 Y=1593.0 Z=236.0	BURNEGED	191.0			FSAR SECT. 3.6		/		AUTH. REFERENCE
INSTALLED (Y/N):		YES							
INSTALL. REF:	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE		
QUALIF EXEMPT:	OPERABILITY	O	REFERENCES:						
QUALIFI:	TEMPERATURE	T							
STATUS:	PRESSURE	P							
:	REL. HUMIDTY	H							
:	CHEM. SPRAY	C							
PHYS DNG REF:	RADIATION	R					REVISION #		
PHYS DNG LOC:	DAGING	A					DATE		
MOUNTING:	BURNEGENCE	S					SYSTEM SAFETY INJECTION		
EQ. DOC. LOC: P.O. 189501	FSAR ENV CAT:						TAG: TEISI 0910A3 SA		
	10500 CATEG.								
	APPENDIX E								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOC. QUALIF.	DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS		
	PARAMETER	ACTUAL		ACTUAL	DEM. QUALIF.					
TAG NO: TE1SI0910B15B-	OPERABILITY	40 YEARS		OPERABILITY REVIEW			/		ACCEL TIME	
EQUIPMENT: MOTOR TYPE	NORM/TEST DBA	1 YEAR POST DBA							ACCEL TEMP	
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP.)	TEMPERATURE	104° F NORM 104° F DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2			M		REPLACEMENT	
MANUFACTURER:	PRESSURE	ATMOS. NORM DBA NORM					/		MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE							M		SUBCOMPONENTS	
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			M			
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A					/			
ACCUM. SPEC: N/A	R GAMMA	8.9E4		FSAR FIG. 3.11B-20			/			
ACCUM. DEM.: N/A	A BETA D SHIELD T.I.D.	100% BETA 1.89 ES		ZONE RS			H			
SPECIFICATIONS:	AGE- INST LIFE (PER 523-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51			/		SAFETY FUNCTION	
P.O. #189501 CND # 1SH.#220	BURNEGED	191.0 YES		FSAR SECT. 3.6			/		AUTH. REFERENCE	
PLANT LOC.: AB21										
COORDINATES X=1592.0 Y=1593.0 Z=236.0										
INSTALLED (Y/N): INSTAL. REF: QUALIF EXEMPTN: QUALIF: STATUS: PHYS DNG REF: PHYS DNG LUCI: MOUNTING: EW.DUC.LUCI w/ P.O. 189501	PARAMETER	SUPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:			
	OPERABILITY	O	REFERENCES:							
	TEMPERATURE	T								
	PRESSURE	P								
	REL. HUMIDTY	H								
	CHEM. SPRAY	C								
	RADIATION	R								
	AGING	A					REVISION # :			
	BURNEGMENT	S					DATE :			
	FSAR ENV CAT:						SYSTEM SAFETY INJECTION			
	10588 CATEG.:						TAG : TE1SI0910B15B			
	APPENDIX E									

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS		
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL					DEM. QUALIF.
TAG NO: TE 18I 0910 A4 SA	OPERABILITY	40 YEARS		OPERABILITY		/		ACCEL TIME	
EQUIPMENT: MOTOR	ITY	NORMAL		REVIEW					
EQUIPMENT: MOTOR TYPE	NORM/TEST	1 YEAR						ACCEL TEMP	
COMPONENT: TEMP. ELEMENT (FOR C. CHARGING PMP.)	DBA	POST DBA							
COMPONENT: TEMP. ELEMENT (FOR C. CHARGING PMP.)	TEMPERATURE	104° F NORM		FSAR TABLE		/		REPLACEMENT	
COMPONENT: TEMP. ELEMENT (FOR C. CHARGING PMP.)	URE	104° F DBA		9.4.0-1		M			
COMPONENT: TEMP. ELEMENT (FOR C. CHARGING PMP.)				FSAR FIG.					
COMPONENT: TEMP. ELEMENT (FOR C. CHARGING PMP.)				3.11B-2				MAINTAIN.	
MANUFACTURER:	PRESSURE	ATMOS. NORM.				/			
MANUFACTURER:		DBA NORM.						SUBCOMPONENTS	
MAJOR SUPPLIER: WESTINGHOUSE						M			
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM.		FSAR TABLE		/			
MODEL AND SERIAL #		100% DBA		9.4.0-1 NORM					
MODEL AND SERIAL #				FSAR SECT.		M			
MODEL AND SERIAL #				3.11.4.3 (DBA)					
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A				/			
ACCUM. SPEC: N/A									
ACCUM. DEM.: N/A	R GAMMA	8.9E4		FSAR		/			
ACCUM. DEM.: N/A	A BETA			FIG. 3.11B-20					
ACCUM. DEM.: N/A	D SHIELD	100% BETA		ZONE 5		H			
ACCUM. DEM.: N/A	T.I.D.	1.89E5							
SPECIFICATIONS:	AGE					/		SAFETY FUNCTION	
P.O. # 189501 CND # 15H# 220	INST LIFE	40 YEARS		10 CFR 50					
P.O. # 189501 CND # 15H# 220	(PER 323-1979 DEF.)			PARAGRAPH 50.51					
PLANT LOC.: AB 21	SUBMERGED	191.0		FSAR SECT.		/			
PLANT LOC.: AB 21		YES		3.6				AUTH. REFERENCE	
COORDINATES X= 1532.0 Y= 1593.0 Z= 236.0									
INSTALLED (Y/H):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE		
INSTALL. REFS:	OPERABILITY	O	REFERENCES:						
QUALIF EXEMPTN:	TEMPERATURE	T							
QUALIFI:	PRESSURE	P							
STATUS:	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DNG REFI:	AGING	A					REVISION # :		
PHYS DNG LUCI:	SUBMERGENCE	S					DATE :		
HOUSING :							SYSTEM : SAFETY INJECTION		
EDUC. LUC: W/PO. 189501	FSAR ENV CAT:						TAG : TE 18I 0910 A4 SA		
EDUC. LUC: W/PO. 189501	10588 CATEG.:								
EDUC. LUC: W/PO. 189501	APPENDIX E								



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M UITS	ITEMS	
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL				
TAG NO: TE 18W0910A5 SA	OPERABILITY	40 YEARS		OPERABILITY REVIEW		/	ACCEL TIME	
EQUIPMENT: MOTOR TYPE	NORM/TEST	1 YEAR					ACCEL TEMP	
COMPONENT: TEMP. ELEMENT (FOR C. CHARGING PMP.)	TEMPERATURE	104°F NORM 104°F DBA		FSAR TABLE 19.4.0-1 FSAR FIG. 3.11B-2		M	REPLACEMENT	
MANUFACTURER:	PRESSURE	ATMOS. NORM. DBA NORM.				/	MAINTENANCE	
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M	SUBCOMPONENTS	
MODEL AND SERIAL #	CHEMICAL SPRAY	N/A				/		
FUNCTIONS & SERVICE	R GAMMA	18.9E4		FSAR FIG. 3.11B-20 ZONE 5		H		
ACCUM. SPEC: N/A	A BETA	100% BETA						
ACCUM. DEM: N/A	D SHIELD	100% BETA						
SPECIFICATIONS:	T.I.D.	1.09E5						
P.O. # 189501 CND # 18W220	AGE - INST LIFE	40 YEARS		10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTIONS	
PLANT LOC. TAB 21	(PER 323-1979 DEF.)							
COORDINATES X=1485.0 Y=1593.0 Z=236.0	SUBMERGENCE	191.0 YES		FSAR SECT. 3.6		/	AUTH. REFERENCE	
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE	
INSTAL. NEF:	OPERABILITY	O	REFERENCES:					
QUALIF EXEMPTN:	TEMPERATURE	T						
QUALIF:	PRESSURE	P						
STATUS:	REL. HUMIDTY	H						
:	CHEM. SPRAY	C						
:	RADIATION	R						
PHYS DNG NEF:	AGING	A					REVISION # :	
PHYS DNG LUCI:	SUBMERGENCE	S					DATE :	
MOUNTING :							SYSTEM : SAFETY INJECTION	
EQ. DUC. LUCI: w/P.O. 189501	FSAR ENV CAT:						TAG : TE 18W0910A5SA	
	10580 CATEG.:							
	APPENDIX E							

EQUIP. DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M UITS	ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL			
TAG NO: TE 1SW0910A6 SA	OPERABILITY	40 YEARS		OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT: MOTOR TYPE	NORM/TEST	1 YEAR					ACCEL TEMP
COMPONENT: TEMP. ELEMENT (FOR C. CHARGING PMP.)	TEMPERATURE	104°F NORM 104°F DBA		FSAR TABLE 19.4.0-1 FSAR FIG. 3.11B-2		M	REPLACEMENT
MAINTENANCE:	PRESSURE	ATMOS. NORM. DBA NORM.					MAINTENANCE
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M	SUBCOMPONENTS
MODEL AND SERIAL #	CHEMICAL SPRAY	N/A					
FUNCTIONS & SERVICE	R GAMMA	18.9E4		FSAR FIG. 3.11B-20 ZONE 5		H	
ACCUM. SPEC: N/A	A BETA	100% BETA					
ACCUM. DEM: N/A	D SHIELD	1.09E5					
SPECIFICATIONS:	T.I.D.						
P.O. # 189501 CND # 1SH# 220	AGE - INST LIFE	40 YEARS		10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTIONS
PLANT LOC.: AB 21	(PER 323-1979 DEF.)						
COORDINATES X 1485.0 Y 1593.0 Z 236.0	EMERGENCY	191.0 YES		FSAR SECT. 3.6			AUTH. REFERENCE
INSTALLED (Y/Y):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGES	
INITIAL REFS:	OPERABILITY	O	REFERENCES:				
QUALIF. EXEMPTN:	TEMPERATURE	T					
QUALIF:	PRESSURE	P					
STATUS:	REL. HUMIDITY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DNG REFS:	TAGNG	A				REVISION #	
PHYS DNG LUCI:	EMERGENCY	S				DATE	
MOUNTING:							
EQ. DUC. LUCI: w/ P.O. 189501	FSAR ENV CAT:					SYSTEM: SAFETY INJECTION	
	1958 CATEG.:						
	APPENDIX E					TAG: TE 1SW0910A6SA	



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/MI OUTS	ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL DEM. QUALIF.			
TAG NO: TE ISI 0910 B2 5B	OPERABILITY	40 YEARS		OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT: MOTOR TYPE	NORM/TEST DBA	NORMAL 1 YEAR POST DBA					ACCEL TEMP
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP)	TEMPERATURE	104°F NORM 104°F DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2		/ M	REPLACEMENT
MANUFACTURER:	PRESSURE	ATMOS. NORM. DBA NORM.				/ M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		/ M	SUBCOMPONENTS
FUNCTIONS & SERVICE:	CHEMICAL SPRAY	N/A				/	
ACCUM. SPEC: N/A	R GAMMA	8.9E4		FSAR FIG. 3.11B-20		/	
ACCUM. DEM.: N/A	A BETA D SHIELD T.I.D.	100% BETA 1.89E5		ZONE RS		H	
SPECIFICATIONS:	AGE-INST LIFE (PER 323-1979 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION
P.O. # 189501 CND # 16H.220	BURNEGED	191.0 YES		FSAR SECT. 3.6		/	
PLANT LOC.: AB 21							
COORDINATES X= 1532.0 Y= 1593.0 Z= 236.0							AUTH. REFERENCE
INSTALLED (Y/II): INSTAL. REF: QUALIF. EXEMPTN:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE	
QUALIF. STATUS	OPERABILITY	O	REFERENCES:				
	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
	RADIO	A					
	BURNEGENCE	S					
PHYS DNG REF: PHYS DNG LUC: MOUNTING: EQ. DUC. LUC: w/ P.O. 189501	FSAR ENV CAT: 10500 CATEG. 1 APPENDIX E					REVISION #: DATE:	
						SYSTEM SAFETY INJECTION TAG: TE ISI 0910 B2 5B	

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL			
TAG NO: TE 1S10910B3 SB	OPERABILITY	40 YEARS		OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT: MOTOR	NORM/TEST	NORMAL					ACCEL TEMP
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP. MTR.)	DBA	POST DBA					REPLACEMENT
MANUFACTURER:	TEMPERATURE	104° F NORM		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2		M	MANTAIN.
	PRESSURE	ATMOS. NORM.				/	SUBCOMPONENTS
MAJOR SUPPLIER: WESTINGHOUSE	DBA NORM.					M	
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM.		FSAR TABLE 9.4.0-1 NORM.		/	
FUNCT. USE & SERVICE		100% DBA		FSAR SECT. 3.11.4.3 (DBA)		M	
	CHEMICAL SPRAY	N/A				/	
ACCUM. SPEC: N/A	R GAMMA	1.89 E4		FSAR FIG. 3.11B-20		/	
ACCUM. DEM.: N/A	A BETA	100% BETA		ZONE RS		H	
SPECIFICATIONS:	Y.I.D.	1.89 E5					
P.O. # 189501 CND # 1220	AGE - INST LIFE (PER 323-1979 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION
PLANT LOC.: AB 21	SUBMERGED	191.0		FSAR SECT. 3.6		/	
COORDINATES X=1532.0 Y=1593.0 Z=236.0	YES						AUTH. REFERENCE
INSTALLED (Y/H):	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTAL. NEF:	OPERABILITY	O	REFERENCES:				
QUALIF EXEMPT:	TEMPERATURE	T					
QUALIF:	PRESSURE	P					
STATUS:	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
	AGING	A					
PHYS DNG NEF:	SUBMERGENCE	S					
PHYS DNG LUC:	FSAR ENV CAT:					REVISION # :	
MOUNTING :	19588 CATEG.:					DATE :	
EQ. DUC. LUC: w 189501	APPENDIX E					SYSTEM : SAFETY INJECTION	
						TAG : TE 1S10910B3 SB	

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. H/M	OUTS ITEMS
	PARAMETER ACTUAL	DEH. QUALIF.	ACTUAL	DEH. QUALIF.		
TAG NO: TE ISI 0910B4 SB	OPERABILITY	40 YEARS	OPERABILITY	REVIEW	/	ACCEL TIME
EQUIPMENT: MOTOR	TRY	NORMAL				
TYPE	NORM/TEST	1 YEAR				ACCEL TEMP
COMPONENT: TEMP ELEMENT (FOR CHARGING PMP. MTR.)	DBA	POST DBA				
MANUFACTURER:	TEMPERATURE	104°F NORM	FSAR TABLE		/	REPLACEMENT
	URE	104°F DBA	9.4.0-1		M	
			FSAR FIG.			
			3.11B-2			MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM.			/	
		DBA NORM.				SUBCOMPONENTS
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM. 100% DBA	FSAR TABLE		/	
FUNCTIONS & SERVICE			9.4.0-1 NORM			
			FSAR SECT.		M	
			3.11.4.3(DBA)			
ACCUM. SPEC: N/A	CHEMICAL SPRAY	N/A			/	
ACCUM. DEM.: N/A	R GAMMA	8.9 E4	FSAR		/	
	A BETA		FIG. 3.11B-20			
	D SHIELD	100% BETA	ZONE RS		H	
SPECIFICATIONS:	T.I.D.	1.89 E5				
P.O. # 189501 CND # 154.220	AGE - INST LIFE	40 YEARS	10 CFR 50		/	SAFETY FUNCTIONS
PLANT LOC.: AB 21	(PER 323-1974 DEF.)		PARAGRAPH 50.51			
COORDINATES X=1532.0 Y=1593.0 Z=236.0	SURMERGED	191.0	FSAR SECT.		/	
		YES	3.6			AUTH. REFERENCE
INSTALLED (Y/M):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
INSTAL. KEYS	OPERABILITY	O	REFERENCES:			REVISION # : DATE : SYSTEM : SAFETY INJECTION TAG : TE ISI 0910B4 SB
QUALIF EXEMPTN:	TEMPERATURE	T				
QUALIF:	PRESSURE	P				
STATUS:	REL. HUMIDTY	H				
	CHEM. SPRAY	C				
	RADIATION	R				
PHYS DRG KEYS:	AGING	A				
PHYS DRG LUCI MOUNTING	SURMERGENCE	S				
EW.DOC.LUCI # P.O. 189501	FSAR ENV CAT:					
	19588 CATEG.:					
	APPENDIX E					

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: TE ISI 0910 BS SB	OPERABILITY	40 YEARS NORMAL			OPERABILITY REVIEW	/	ACCEL TIME	
EQUIPMENT: MOTOR TYPE	NORM/TEST DBA	1 YEAR POST DBA					ACCEL TEMP	
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP. MTR.)	TEMPERATURE	104° F NORM 104° F DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2	M	REPLACEMENT	
MANUFACTURER:	PRESSURE	ATMOS. NORM. DBA NORM.				/	MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE						M	SUBCOMPONENTS	
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM. 100% DBA			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	M		
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A				/		
ACCUM. SPEC: N/A	R GAMMA	18.9 ES			FSAR FIG. 3.11B-20	/		
ACCUM. DEM.: N/A	A BETA	100% BETA			ZONE RS	H		
SPECIFICATIONS:	T.I.D.	1.89 ES						
P.O. # 189501 CND # 1SH#220	AGE-INST LIFE	40 YEARS (PER 323-1974 DEF.)			110 CFR 50 PARAGRAPH 50.51	/	SAFETY FUNCTIONS	
PLANT LOC.: AB 21	SUBMERGED	191.0 YES			FSAR SECT. 3.6	/	AUTH. REFERENCE	
COORDINATES X= 1532.0 Y= 1593.0 Z= 236.0								
INSTALLED (Y/N):	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE	
QUALIF EXEMPT:	OPERABILITY	O	REFERENCES:					
QUALIF STATUS:	TEMPERATURE	T						
	PRESSURE	P						
	REL. HUMIDITY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
PHYS O&G NEFI	AGING	A					REVISION #	
PHYS O&G LUCI	SUBMERGENCE	S					DATE	
MOUNTING							SYSTEM: SAFETY INJECTION	
EDUC. LUCI: P.O. 189501	FSAR EHV CAT:						TAG: TE ISI 0910 BS SB	
	10588 CATEG.:							
	APPENDIX E							

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				
TAG NO : TE ISI 0910B6 SB	OPERABILITY	40 YEARS			OPERABILITY REVIEW	/		ACCEL TIME
EQUIPMENT: MOTOR TYPE	NDRH/TEST DBA	NORMAL 1 YEAR POST DBA						ACCEL TEMP
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP) MTR.	TEMPERATURE	104°F NORM 104°F DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2		M	REPLACEMENT
MANUFACTURER:	PRESSURE	ATMOS. NORM. DBA NORM.				/	M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)	/	M	SUBCOMPONENTS
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A				/		
ACCUM. SPEC: N/A	R GAMMA A BETA D SHIELD	0.9E4 100% BETA T.I.D. 1.89 ES			FSAR FIG. 3.11B-20 ZONE RS	/	H	
ACCUM. DEM.: N/A	AGE-INSTR LIFE (PER 323-1974 DEF.)	40 YEARS			10 CFR 50 PARAGRAPH 50.51	/		SAFETY FUNCTION
SPECIFICATIONS: P.O. # 189501 END # ISH#220 PLANT LOC. 1AB 21	SUBMERGED	191.0 YES			FSAR SECT. 3.6	/		AUTH. REFERENCE
COORDINATES X= 1532.0 Y= 1593.0 Z= 236.0	INSTALLED (Y/N): INSTAL. KEYS QUALIF EXEMPTN:	PARA-METER OPERABILITY TEMPERATURE PRESSURE REL. HUMIDTY CHEM. SPRAY RADIATION AGING SUBMERGENCE	SUPPL. REVIEW O T P H C R A S	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGES
PHYS DNG KEYS PHYS DNG LUGS MOUNTING EQ. DUC. LUGS P.O. 189501	QUALIF: STATUS			REFERENCES:				REVISION # DATE
								SYSTEM: SAFETY INJECTION TAG : TE ISI 0910B. SB

A/E: EDASCH SERVICES INC.
 UTIL: LINA PUMER & LIGHT

FACILITY: SHEARON HADNER NO. 1
 COMPONENT EVALUATION REPORT

ISSUE: WESTINGHOUSE - PMH
 CAPACITY: 900 MW(CE)

REV: 0
 CESP

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M/ UITS	ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAB NO: TE ISI 0911A SA	OPERABILITY	40 YEARS			OPERABILITY	/	ACCEL TIME	
EQUIPMENT: MOTOR TYPE	TEMPERATURE	NORMAL			REVIEW		ACCEL TEMP	
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP. MTR.)	MOH/TEST	1 YEAR					REPLACEMENT	
MANUFACTURER:	DBA	POST DBA					MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE	TEMPERATURE	104° F NORM			FSAR TABLE	/		
	URE	104° F DBA			9.4.0-1	M		
					FSAR FIG.			
					3.11B-2			
	PRESSURE	ATMOS. NORM.				/		
		DBA NORM.					SUBCOMPONENTS	
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM.			FSAR TABLE	/		
FUNCTIONS & SERVICE		100% DBA			9.4.0-1 NORM			
					FSAR SECT.	M		
					3.11.4.3 (DBA)			
ACCUM. SPEC: N/A	CHEMICAL SPRAY	N/A				/		
ACCUM. DEM.: N/A	R GAMMA	18.9 E4			FSAR	/		
SPECIFICATIONS:	A BETA				FIG. 3.11B-20			
P.O. # 189501 CND # 1 SH # 220	D SHIELD	100% BETA			ZONERS	H		
PLANT LOC.: AB 21	T.I.D.	1.89 E5						
COORDINATES X= 1485.0 Y= 1543.0 Z= 276.0	AGE				10 CFR 50	/	SAFETY FUNCTION	
	INST LIFE	40 YEARS			PARAGRAPH			
	(PER 323-1974 DEF.)				50.51			
	SUBMERGED	191' 0			FSAR SECT.	/		
		YES			3.6		AUTH. REFERENCE	
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTAL. KEYS:	OPERABILITY	O	REFERENCES:					
QUALIF EXEMPT:	TEMPERATURE	T						
QUALIF:	PRESSURE	P						
STATUS:	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
PHYS DRG KEYS:	AGING	A					REVISION # :	
PHYS DRG LUCI:	SUBMERGENCE	S					DATE :	
MOUNTING:							SYSTEM SAFETY FUNCTION	
EQ. DOC. LUCI: NO. 189501	FSAR ENV CAT:						TAG : TE ISI 0911A SA	
	1958 CATEG.:							
	APPENDIX E							



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	N/M/OUTS ITEMS	
	PARAMETER	ACTUAL				
TAG NO: TE ISI 0911B SA	OPERABILITY	40 YEARS	OPERABILITY		/	ACCEL TIME
EQUIPMENT: MOTOR TYPE	ITY	NORMAL	(REVIEW)			
	NDHM/TEST DBA	1 YEAR				ACCEL TEMP
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP. MTR.)	TEMPERATURE	104° F NORM 104° F DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2		M	REPLACEMENT
	MAINTENANCE					
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. DBA NORM.			/	
					M	SUBCOMPONENTS
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM. 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		/	
	FUNCTIONS & SERVICE				M	
ACCUM. SPEC: N/A	CHEMICAL SPRAY	N/A			/	
ACCUM. DEM: N/A	R GAMMA	8.9 E4	FSAR FIG. 3.11B-20		/	
	A BETA D SHIELD T.I.D.	100% BETA 1.89 E5	ZONERS		H	
SPECIFICATIONS:	AGE- INST LIFE (PER 323- 1979 DEF.)	40 YEARS	10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION
	P.O. # 189501 CND # 1220					
PLANT LOC: AB 21	SUBMERGED	191-0 YES	FSAR SECT. 3.6		/	
COORDINATES X= 1532.0 Y= 1593.0 Z= 236.0						AUTH. REFERENCE
INSTALLED (Y/M):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
INSTAL. KEYS	OPERABILITY	O	REFERENCES:			
QUALIF EXEMPTN:	TEMPERATURE	T				
QUALIFI:	PRESSURE	P				
STATUS:	REL. HUMIDTY	H				
	CHEM. SPRAY	C				
	RADIATION	R				
PHYS DRG KEYS:	AGING	A				REVISION # :
PHYS DRG LUCS:	SUBMERGENCE	S				DATE :
MOUNTING :						SYSTEM : SAFETY INJECTION
EQ. DUC. LUCS: W/ P.O. 189501	FSAR ENV CAT:					TAG : TE ISI 0911B SA
	10588 CATEG.:					
	APPENDIX E					



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL			
TAG NO: TE ISI 0912 A SA	OPERABILITY	40 YEARS		OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: MOTOR	TEST	NORMAL					ACCEL TEMP
COMPONENT: TEMP ELEMENT (FOR CHARGING PWR MTR)	DBA	1 YEAR					REPLACEMENT
MAINT. ALTERS	TEMPERATURE	POST DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2		M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	104°F NORM 104°F DBA				M	SUBCOMPONENTS
MODEL AND SERIAL #	REL. HUMIDITY	ATMOS. NORM. DBA NORM.		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	20-90% NORM. 100% DBA					
ACCUM. SPEC: N/A		N/A					
ACCUM. DEM.: N/A	R GAMMA	18.9E4		FSAR FIG. 3.11B-20 ZONE RS		H	
SPECIFICATIONS:	A BETA	100% BETA					
P.O. # 189501 CND # 1220	D SHIELD	100% BETA					
PLANT LOC.: AB21	T.I.D.	1.89E5					
COORDINATES X= 1485.0 Y= 1593.0 Z= 236.0	AGC- INST LIFE (PER 323-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION
INSTALLED (Y/H):	SURMERGED	191.0 YES		FSAR SECT. 3.6			AUTH. REFERENCE
INSTALL. KEYS:	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
QUALIF. EXEMPT:	OPERABILITY	O	REFERENCES:				
QUALIF. STATUS:	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDITY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DNG KEYS:	AGING	A					REVISION #
PHYS DNG LUCI:	SURMERGENCE	S					DATE
MOUNTING:	FSAR EHV CAT:						SYSTEM: SAFETY INJECTION
EV. DUC. LUCI: by RO.189501	19588 CATEG.:						TE ISI 0912 A SA
	APPENDIX E						TAG

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: TE ISI 0912 B SB	OPENABIL- ITY	40 YEARS NORMAL			OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: MOTOR TYPE	NDHM/TEST DBA	1 YEAR POST DBA						ACCEL TEMP
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP. MTR)	TEMPERAT- URE	104°F NORM 104°F DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2		M	REPLACEMENT
MAINT. ALTERS	PRESSURE	ATMOS. NORM. DBA NORM.						MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE							M	SUBCOMPONENTS
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM. 100% DBA			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A						
ACCUM. SPEC: N/A	R GAMMA A BETA D SHIELD	8.9E4 100% BETA T.I.D. 11.89E5			FSAR FIG. 3.11B-20 ZONE R5		H	
ACCUM. DEM.: N/A	AGE- INST LIFE (PER 323- 1979 DEF.)	40 YEARS			110 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTIONS
SPECIFICATIONS: P.O. # 189501 END # 220 PLANT LOC.: AB21	SUBMERGED	191.0 YES			FSAR SECT. 3.6			AUTH. REFERENCE
COORDINATES X= 1532.0 Y= 1593.0 Z= 236.0								
INSTALLED (Y/N): INSTAL. NEF: QUALIF EXEMPTN: QUALIFI STATUS PHYS DNG NEF: PHYS DNG LUCI MOUNTING EN/DUC. LUCI by P.O. 189501	PARA- METER OPERABILITY TEMPERATURE PRESSURE REL. HUMIDITY CHEM. SPRAY RADIATION AGING SUBMERGENCE FSAR ENF CAT: 1958 CATEG. APPENDIX E	SUPPL. REVIEW O T P H C R A S	OTHER EQUIPMENT THIS CES APPLIES TO: REFERENCES:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: REVISION # : DATE : SYSTEM : SAFETY INJECTION TAG : TE ISI 0912 B SB		

EQ. IDENTIFICATION	ENVIRONMENTAL PARAMETER	ACTUAL	DEM. QUALITY	DOCUMENTATION ACTUAL	DEM. QUALIF.	QUALIF. METHOD	H/M	OUTS ITEMS	
TAG NO: TE ISI 0914-15	OPENABILITY	40 YEARS		OPERABILITY REVIEW				ACCEL TIME	
EQUIPMENT: MOTOR TYPE	STRT	NORMAL						ACCEL TEMP	
	NORM/TEST	1 YEAR							
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP. MTR)	DBA	POST DBA						REPLACEMENT	
MAIN ALTERNERS	TEMPERATURE	104°F NORM		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2			M	MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. DBA NORM.					M	SUBCOMPONENTS	
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)			M		
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A							
ACCUM. SPEC: N/A	R GAMMA	18.9 E4		FSAR FIG. 3.11B-20			H		
ACCUM. DEM.: N/A	A BETA	100% BETA		ZONE RS					
SPECIFICATIONS:	D SHIELD	1.89 ES							
P.O. # 189501 END # 1220	T.I.D.								
PLANT LOC.: AB21	AGE			10 CFR 50 PARAGRAPH 50.51				SAFETY FUNCTION	
COORDINATES X= 1503.0 Y= 1593.0 Z= 236.0	INST LIFE (PER 323-1974 DEF.)	40 YEARS							
	SUBMERGED	191.0 YES		FSAR SECT. 3.6				AUTH. REFERENCES	
INSTALLED (Y/N):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGES		
QUALIF EXEMPT:	OPERABILITY	O	REFERENCES:						
QUALIF STATUS:	TEMPERATURE	T							
	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS BNC NEF:	AGING	A	REVISION #:			DATE:			
PHYS BNC LUC:	SUBMERGENCE	S	SYSTEM: SAFETY INJECTION			TAG: TE ISI 0914-15			
MOUNTING:	FSAR ENV CAT:								
EQ. DOC. LUC: P.O. 189501	1958 CATEG.:								
	APPENDIX E:								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/WI UITS	ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL DEM. QUALIF.			
TAG NO: TE 151 0914-2S	OPERABILITY	40 YEARS		OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: MOTOR TYPE	MTY	NORMAL					ACCEL TEMP
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP. MTR)	MON/TEST DBA	1 YEAR POST DBA					REPLACEMENT
MAIN ALTERNATOR	TEMPERATURE	104°F NORM 104°F DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2		M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	PRESSURE	ATMOS. NORM. DBA NORM.				M	SUBCOMPONENTS
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM. 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A					
ACCUM. SPEC: N/A	R GAMMA	18.9E4		FSAR FIG. 3.11B-20 ZONE RS		H	
ACCUM. DEM.: N/A	A BETA D SHIELD T.I.D.	100% BETA 11.89E5					
SPECIFICATIONS:	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTIONS
P.O. # 189501 CND # 1220	SUBMERGENCE	191.0 YES		FSAR SECT. 3.6			AUTH. REFERENCES
PLANT LOC.: AB21							
COORDINATES X= Y= 1593.0 Z= 236.0							
INSTALLED (Y/H):							
INSTAL. REFS:	PARA-	SUPPL.	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
QUALIF EXEMPTS:	MTEN	REVIEW	REFERENCES:				
OPERABILITY	O						
TEMPERATURE	T						
PRESSURE	P						
REL. HUMIDITY	H						
CHEM. SPRAY	C						
RADIATION	R						
AGING	A						
SUBMERGENCE	S						
ISAN ENV CAT:							REVISION #
10588 CATEG.:							DATE
APPENDIX E							SYSTEM: SAFETY INJECTION
							TAG: TE 151 0914-2S

EQUIPMENT DESCRIPTION	ENVIRONMENTAL		DOCUMENTATION		QUALIF. METHOD	N/H/ UITS	ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.				ACTUAL
TAG NO: TE 1SI 0914-35	OPERABIL- ITY	40 YEARS NORMAL			OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT MOTOR TYPE	NORM/TEST DBA	1 YEAR POST DBA						ACCEL TEMP
COMPONENT TEMP ELEMENT (FOR CHARGING PWR MTR)	TEMPERAT- URE	104°F NORM 104°F DBA			FSAR TABLE 19.4.0-1 FSAR FIG. 3.11B-2		M	REPLACEMENT
MAINT ALTERN:	PRESSURE	ATMOS. NORM. DBA NORM.						MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE							M	SUBCOMPONENTS
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM. 100% DBA			FSAR TABLE 19.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		M	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A						
ACCUM. SPEC: N/A								
ACCUM. DEM.: N/A	R GAMMA A BETA D SHIELD T.I.D.	18.9 E4 100% BETA 1.89 E5			FSAR FIG. 3.11B-20 ZONE RS		H	
SPECIFICATIONS:	AGE- INST LIFE (PER 323- 1978 DEF.)	40 YEARS			10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTIONS
P.O. # 189501 CND # 1220								
PLANT LOC.: AB21								
COORDINATES X= 1508.0 Y= 1593.0 Z= 236.0	SUBMERGED	191.0 YES			FSAR SECT. 3.6			AUTH. REFERENCE

INSTALLED (Y/N):	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:	QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
INSTAL. REF:	OPERABILITY	O		
QUALIF EXEMPT:	TEMPERATURE	T		
QUALIF:	PRESSURE	P		
STATUS:	REL. HUMIDITY	H		
	CHEM. SPRAY	C		
	RADIATION	R		
	AGING	A		
PHYS BNC REF:	SUBMERGENCE	S		
PHYS BNC LOC:				
MOUNTING:				
EDUC. LOC: by P.O. 189501	FSAR ENV CAT:			
	10588 CATEG.:			
	APPENDIX E			
			REFERENCES:	
				REVISION # :
				DATE :
				SYSTEM SAFETY INJECTION :
				TAG 1TE 1SI 0914-35



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION METHOD	H/M/OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALITY	ACTUAL DEM. QUALIF.		
TAG NO: TE ISI 0914-4 S	OPERABILITY	40 YEARS	OPERABILITY	REVIEW		ACCEL TIME
EQUIPMENT: MOTOR TYPE	NORM/TEST	1 YEAR				ACCEL TEMP
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP MTR)	DBA	POST DBA				REPLACEMENT
MAIN ALTERNATE	TEMPERATURE	104° F NORM 104° F DBA	FSAR TABLE	19.4.0-1 FSAR FIG.	M	MAINTAIN.
	PRESSURE	ATMOS. NORM. DBA NORM.		3.11B-2		SUBCOMPONENTS
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA	FSAR TABLE	19.4.0-1 NORM FSAR SECT.	M	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A		3.11.4.3 (DBA)		
ACCUM. SPEC: N/A	R GAMMA	8.9 E4	FSAR FIG.	3.11B-20		
ACCUM. DEM.: N/A	A BETA			ZONE RS	H	
SPECIFICATIONS:	D SHIELD	100% BETA				
P.O. NO: 189501 CND # 220	T.I.D.	1.89 E5				SAFETY FUNCTIONS
PLANT LOC.: AB21	AGE - INST LIFE	40 YEARS	110 CFR 50	PARAGRAPH 50.51		
COORDINATES X= 1508.0 Y= 1593.0 Z= 236.0	(PER 323-1979 DEF.)					
	SUBMERGENCE	191.0 YES	FSAR SECT.	3.6		AUTH. REFERENCES
INSTALLED (Y/N): INSTAL. NEP: QUALIF. EXEMPT:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
QUALIFI:	OPERABILITY	O	REFERENCES:			
STATUS:	TEMPERATURE	T				
	PRESSURE	P				
	REL. HUMIDTY	H				
	CHEM. SPRAY	C				
PHYS DNG NEP:	RADIATION	R	REVISION #: DATE: SYSTEM: SAFETY INJECTION TAG: TE ISI 0914-4S			
PHYS DNG LUC:	AGING	A				
MOUNTING:	SUBMERGENCE	S				
EN. DUC. LUC: by P.O. 189501	FSAR ENV CAT:					
	10580 CATEG.:					
	APPENDIX E					

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOC. QUALIF.	DOCUMENTATION		QUALIF. METHOD	H/M/OUTS	ITEMS	
	PARAMETER	ACTUAL		ACTUAL	DEH. QUALIF.				
TAG NO: TE ISI 0914-5 S	OPERABILITY	40 YEARS	OPERABILITY					ACCEL TIME:	
EQUIPMENT: MOTOR	ITY	NORMAL	REVIEW					ACCEL TEMP:	
	NDM/TEST	1 YEAR							
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP MTR)	DBA	POST DBA						REPLACEMENT:	
	TEMPERATURE	104°F NORM 104°F DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2			M		MAINTAIN.:	
MAIN MANUFACTURER:	PRESSURE	ATMOS. NORM. DBA NORM.				M		SUBCOMPONENTS:	
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			M			
MODEL AND SERIAL #	CHEMICAL SPRAY	N/A							
FUNCTIONS & SERVICE	R GAMMA	8.9 E4	FSAR FIG. 3.11B-20						
ACCUM. SPEC: N/A	A BETA		ZONE RS			H			
ACCUM. DEM.: N/A	D SHIELD	100% BETA							
SPECIFICATIONS:	• T.I.D.	1.89 E5							
P.O. # 189501 END # 220	AGE - INST LIFE	40 YEARS	10 CFR 50 PARAGRAPH 50.51					SAFETY FUNCTIONS:	
PLANT LOC.: AB21	(PER 325-1979 DEF.)								
COORDINATES X=	SUBMERGED	191.0	FSAR SECT. 3.6					AUTH. REFERENCE:	
Y= 1593.0		YES							
Z= 236.0									
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:		
INSTAL. NEFI:	OPERABILITY	O	REFERENCES:						
QUALIF. EXEMPT:	TEMPERATURE	T							
QUALIF. STATUS:	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS ENG NEFI:	AGING	A					REVISION # :		
PHYS ENG LUCI:	SUBMERGENCE	S					DATE :		
MOUNTING :							SYSTEM SAFETY INJECTION		
EN. DOC. LUCI: by PO. 189501	FSAR ENV CAT:						TAG: TE ISI 0914-5 S		
	19580 CATEG.:								
	APPENDIX E								

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIFICATION METHOD	H/M	UNITS
	PARAMETER	ACTUAL	DEM.	QUALIF.			
TAG NO: TE ISI 0914-65	OPERABILITY	40 YEARS					ACCEL TIME
EQUIPMENT: MOTOR TYPE	ITY	NORMAL					
	MONITOR	1 YEAR					ACCEL TEMP
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP. MTR)	DBA	POST DBA					
	TEMPERATURE	104°F NORM					REPLACEMENT
MAINT. ALIQUOTS		104°F DBA				M	
	PRESSURE	ATMOS. NORM. DBA NORM.					MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE						M	SUBCOMPONENTS
MODEL AND SERIAL #	RELATIVE HUMIDITY	20-90% NORM.					
		100% DBA					
FUNCTIONS & SERVICE							
	CHEMICAL SPRAY	N/A					
ACCUM. SPEC: N/A							
ACCUM. DEM.: N/A	R GAMMA	13.9 E4					
	A BETA						
SPECIFICATIONS:	D SHIELD	100% BETA					
	Y.I.D.	11.89 E5					
P.O. # 189501 END # 1220	AGE-INST LIFE	40 YEARS					SAFETY FUNCTIONS
PLANT LOC.: AB21	(PER 523-1979 DEF.)						
COORDINATES X= 1508.0 Y= 1593.0 Z= 236.0	SUBMERGED	191.0					
		YES					AUTH. REFERENCE
INSTALLED (Y/H):	SUPPL. REVIEW		OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:	
INSTAL. REFS:	PARAMETER						
QUALIF. EXEMPTN:	OPERABILITY	O					
QUALIF. STATUS:	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDITY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
	AGING	A					
	SUBMERGENCE	S					
PHYS. ENG. REFS:	FSAR ENV CAT:						REVISION #:
PHYS. ENG. LOGS:	10588 CATEG.:						DATE:
MOUNTING:	APPENDIX E:						SYSTEM: SAFETY INJECTION
EN. DOC. LOG: by PO. 189501							TAG: TE ISI 0914-65

REFERENCES:

REVISION #:
DATE:
SYSTEM: SAFETY INJECTION
TAG: TE ISI 0914-65

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M UTS	UTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL DEM. QUALIF.			
TAG NO: TE ISI 0915 SAB	OPENABILITY	40 YEARS		OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: MOTOR TYPE	NORM/TEST DBA	NORMAL 1 YEAR POST DBA					ACCEL TEMP
COMPONENT: TEMP ELEMENT (FOR CHARGING PMR MTR)	TEMPERATURE	104°F NORM 104°F DBA		IF SAR TABLE 19.4.0-1 IF SAR FIG. 3.11B-2		M	REPLACEMENT
MAINTAINERS:	PRESSURE	ATMOS. NORM. DBA NORM.				M	MAINTAIN.
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA		IF SAR TABLE 19.4.0-1 NORM IF SAR SECT. 3.11.4.3 (DBA)		M	SUBCOMPONENTS
MODEL AND SERIAL #	CHEMICAL SPRAY	N/A					
FUNCTIONS & SERVICE	R GAMMA	18.9 E4		IF SAR FIG. 3.11B-20 ZONE RS		H	
ACCUM. SPEC: N/A	A BETA						
ACCUM. DEM.: N/A	D SHIELD	100% BETA					
SPECIFICATIONS:	Y.I.D.	1.89 E5					
P.O. # 189501 END # 1220	AGE-INST LIFE	40 YEARS		110 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTIONS
PLANT LOC.: AB21	(PER 323-1979 DEF.)						
COORDINATES X=1508.0 Y=1593.0 Z=236.0	SUBMERGED	191.0 YES		IF SAR SECT. 3.6			AUTH. REFERENCES
INSTALLED (Y/N): INSTAL. KEYS QUALIF EXEMPT:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGES	
QUALIF:	OPERABILITY	O	REFERENCES:				
STATUS:	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDITY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS BNG KEYS:	AGING	A				REVISION #	
PHYS BNG LOC:	SUBMERGENCE	S				DATE	
MOUNTING:						SYSTEM SAFETY INJECTION	
EN. BUC. LOC: by P.O. 189501	IF SAR ENV CAT:					TAG	
	10500 CATEG.					TE ISI 0915 SAB	
	APPENDIX E						

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	UNITS	ITEMS	
	PARAMETER	ACTUAL	DEM.	QUALIF.					ACTUAL
TAG NO: TE ISI 0916 SAB	OPERABILITY	40 YEARS			OPERABILITY REVIEW			ACCEL TIME	
EQUIPMENT: MOTOR	NOHM/TEST	1 YEAR						ACCEL TEMP	
COMPONENT: TEMP. ELEMENT (FOR CHARGING PMP. MTR)	TEMPERATURE	104°F NORM 1104°F DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11B-2		M	REPLACEMENT	
MAINT. ALTERNATE	PRESSURE	ATMOS. NORM. DBA NORM.					M	MAINTAIN.	
MAJOR SUPPLIER: WESTINGHOUSE	RELATIVE HUMIDITY	20-90% NORM. 100% DBA			FSAR TABLE 9.4.0-1 FSAR SECT. 3.11.4.3 (DBA)		M	SUBCOMPONENTS	
FUNCTIONS & SERVICE	CHEMICAL SPRAY	N/A							
ACCUM. SPEC: N/A	R GAMMA	8.9E4			FSAR FIG. 3.11B-20				
ACCUM. DEM.: N/A	A BETA	100% BETA			ZONE RS		H		
SPECIFICATIONS:	T.I.D.	11.89E4							
P.O. 189501 END # 220	AGE-INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTIONS	
PLANT LOC.: AB21	(PER 323-1979 DEF.)								
COORDINATES X=	SUBMERGED	191.0			FSAR SECT. 3.6			AUTH. REFERENCES	
Y= 1593.0		YES							
Z= 236.0									
INSTALLED (Y/H):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE		
INSTAL. NEFI	OPERABILITY	O	REFERENCES:						
QUALIF. EXEMPT:	TEMPERATURE	T							
QUALIF:	PRESSURE	P							
STATUS	REL. HUMIDITY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DRG NEFI	AGING	A					REVISION # :		
PHYS DRG LUCI	SUBMERGENCE	S					DATE :		
MOUNTING							SYSTEM : SAFETY INJECTION		
EN.DOC.LUCI by P.O. 189501	FSAR ENV CAT:						TAG : TE ISI 0916 SAB		
	10580 CATEG.:								
	APPENDIX E								



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEH. QUALIF.	ACTUAL	DEH. QUALIF.		
TAG NO: 2SI-V535SA-1	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6 & 4.6 PAGE 11.25		ACCEL TIME: 15092 HOURS
EQUIPMENT TYPE: VALVE GATE	NORM/TEST	1 YEAR	1 YEAR				ACCEL TEMP: 180°C
COMPONENT: MOTOR	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 19.4.0-1	SRS TABLE PAGE 1C THRU 6C		REPLACEMENT: 40 YEARS
MAINT ACTION: LIMITORQUE		FSAR FIG. 3.11.4-1	1385°F DBA	3.11.4-1			MAINTAIN.
MAJOR SUPPLIER: WESTHS.	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM.	REPORT 600456 PAGE 10 & 14		SUBCOMPONENTS: TORQUE & LIMIT SW.
MODEL AND SERIAL #	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 4.4.3 PAGE 18		
FUNCTION & SERVICE: SAFETY INJ. - SERVING VALVE 2SI-V535SA-1		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	SRS TABLE PAGE 1E		
ACCUR. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PPM	3000 PPM	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17		
ACCUR. DEM.: N/A	R GAMMA	1.2 EG	130 EG	FSAR APP 3.11.8-20	TEST REPORT SEC. 4.3 PAGE 12		
SPECIFICATIONS: W.P.O. SPEC. 952065 05	A BETA	3.3 E7	74 EG	CONT. RAD. ZONE C3	SRS TAB D FIG THRU 3G		
P.O. #173662	AGE - INST LIFE (PER 323-1979 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SEC. 3.1.1 PAGE 3		SAFETY FUNCTIONS: SEE TAB "B" OF HE-1
PLANT LOC.: C.B. 21	SURVEILED	228.3		FSAR SECTION 3.6	SRS TABLE PAGE 1A		
COORDINATES X=1537.0 Y=1736.0 Z=254.0		YES	N/A				
INSTALLED (Y/M):	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1
QUALIF EXEMPT: N/A	OPERABILITY	O HE-1	REFERENCES: FLOW DIAG. CAR-2165 G-809 LIMITORQUE TEST REPORT 600456				REVISION # : 0
QUALIF: QUALIFIED, AWAITING CONFIRMATORY DATA	TEMPERATURE	T					DATE: 14-21-84
	PRESSURE	P					SYSTEM: SAFETY INJ.
	REL. HUMIDTY	H					TAG: 2SI-535SA-1
	CHEM. SPRAY	C					
PHYS DNG REF: CAR-2165 G-156	RADIATION	R					
PHYS DNG LUCI TOTAL EQUIP. LIST	AGING	A					
INSTALLING	SURVEILLANCE	S					
EDUC. LUCI: W.P.O. 173662	FSAR ENV CAT: 10500 CATEG. 1A						
	APPENDIX E						



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL			
TAG NO: 2SEV5365B-1	OPERABILITY	40 YEARS	40 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE 11, SEC. 3.6 4.6 PAGE 11 & 25	/	ACCEL TIME: 15092 HOURS
EQUIPMENT TYPE: VALVE GATE	NORM/TEST DBA	1 YEAR POST DBA	1 YEAR POST DBA				ACCEL TEMP: 180°C
COMPONENT: MOTOR	TEMPERATURE	120°F NORM	144°F NORM.	FSAR TABLE 19.4.0-1	SRS TAB E PAGE 1C THRU 16C	COMB. TYPE TEST SUPP. REVIEW	REPLACEMENT: 40 YEARS
MANUFACTURER: LIMITORQUE	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. & FIG.	REPORT 600456 PAGE 10 & 14	COMB. TYPE TEST & SUPP. REVIEW	MAINTAIN.
MAJOR SUPPLIER: WESTHS.		FSAR FIG. 3.11.8-1 FOR DBA	70 PSIG DBA	3.11.6-1 (DBA)	SRS TAB E PAGE 2B		SUBCOMPONENTS: TORQUE & LIMIT SW.
MODEL AND SERIAL #	RELATIVE HUMIDITY	40% NORM	100% NORM.	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 4.4.3 PAGE 18	COMB. TYPE TEST & SUPP. REVIEW	SEE TAB E, PAGE 1E
FUNCTION: SAFETY INJ. & SERVICE SERVING VALVE 2SI-V5365B-1	CHEMICAL SPRAY	2000-2100 PPM BORON	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	NONE
ACCUM. SPEC: N/A		PH 8.5-11.0	PH 10.5-11.1		SRS TAB E PAGE 1D		
ACCUM. DEM.: N/A	H GAMMA	1.2 EG	130 EG	FSAR APP 3.11.8-20	TEST REPORT SECT. 4.3 PAGE 12	COMB. TYPE TEST & SUPP. REVIEW	SEE TAB E PAGE 1G
SPECIFICATIONS: W.E. SPEC. 678862 02	A BETA	3.367	74 EG	CONT. RAD. ZONE C3	SRS TAB E PAGE 1G THRU 3G		
P.O. #173662 CHD # 15N#0456	AGE - INST LIFE (PER 323-1979 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 3.1.1 PAGE 3	COMB. TYPE TEST & SUPP. REVIEW	SEE TAB E, PAGE 1F
PLANT LOC.: C.B.21	SURGE	228.3		FSAR SECTION 3.6	N/A		
COORDINATES X-1518.0 Y-1652.0 Z-249.0		YES	N/A		SRS TAB E PAGE 1A	N/A	AUTH. REFERENCE: M.J.H.
INSTALLED (Y/N): INSTAL. REF: BY FLD.	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1
QUALIF EXEMPT: N/A	OPERABILITY	O HE-1	REFERENCES: FLOW DIAG. CAR-2165G-809 LIMITORQUE TEST REPORT 600456				REVISION # 1 0 DATE 14-21-84 SYSTEM SAFETY INJ.
QUALIF: QUALIFIED, AWAITING STATUS CONFIRMATORY DATA	TEMPERATURE	T					
	PRESSURE	P					
	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
PHYS DNG REF: CAR-2165G-156	RADIATION	R					
PHYS DNG LUG: TOTAL EQUIP. LIST	AGING	A					
MOUNTING	SURGE	S					
EV. DUC. LUG: W.P.O. 173662	FSAR ENV CAT: 19500 CATEG. 1A						
	APPENDIX F						
							TAG: 2SI-V5365B-1

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS
	PARAMETER	ACTUAL	DEH.	QUALIF.			
TAG NO: 2SI-V537SA-1	OPERABILITY	40 YEARS	140 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE III	TEST	ACCEL TIME: 15092 HOURS
EQUIPMENT TYPE: VALVE GATE	NORM/TEST DBA	1 YEAR	1 YEAR		SEC. 3.6 & 4.6 PAGE II, 25		ACCEL TEMP: 180°C
COMPONENT: MOTOR	TEMPERATURE	120°F NORM	144°F NORM	FSAR TABLE 19.4.0-1	SRS TABLE PAGE 1C THRU 6C	COMB. TYPE TEST & SUPP REVIEW	REPLACEMENT: 40 YEARS
MAINTENANCE: LIMITORQUE		FSAR FIG. 3.11.4-1 FOR DBA	1385°F DBA	3.11.4-1		///	MAINTENANCE
MAJOR SUPPLIER: WESTHS.	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM. & FIG.	REPORT 600456 PAGE 10 & 14	COMB. TYPE TEST & SUPP REVIEW	SUBCOMPONENTS: TORQUE & LIMIT SW.
MODEL AND SERIAL #	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 19.4.0-1 NORM.	TEST REPORT SECT. 4.4.3 PAGE 18	COMB. TYPE TEST & SUPP REVIEW	SEE TAB E, PAGE 1E
FUNCTION & SERVICE: SAFETY INJ. SERVING VALVE 2SI-V637SA-1	CHEMICAL SPRAY	2000-2100 PPM BORON	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP REVIEW	/// NONE
ACCUM. SPEC: N/A	R GAMMA	1.2 EG	130 EG	FSAR APP 3.11.8-20	TEST REPORT SEC. 4.3 PAGE 12	COMB. TYPE TEST & SUPP REVIEW	///
ACCUM. DEH.: N/A	D BETA	3.3 E7	74 EG	CONT. RAD. ZONE C3	SRS TABLE PAGE 15 THRU 35		SEE TAB E, PAGE 1G
SPECIFICATIONS: W. PROJ. SPEC. 952065.05 W. E. SPEC. 677752.02	AGE - INST LIFE (PER 323-1974 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SEC. 3.1.1 PAGE 3	COMB. TYPE TEST & SUPP REVIEW	///
P.O. #: 173662	SUBMERGED	228.3		FSAR SECTION 3.6	SRS TABLE PAGE 1A		SAFETY FUNCTION: SEE TAB 'B' OF HE-1
PLANT LOC.: C.B.		YES	N/A				
COORDINATES X=1448.0 Y=1716.0 Z=250.0							AUTH. REFERENCE: M.J.H.
INSTALLED (Y/II):	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1
INSTALL. REF: BY FLD.	OPERABILITY	O HE-1	REFERENCES: FLOW DIAG. CAR-2165 G-809 LIMITORQUE TEST REPORT 600456				REVISION #: 0 DATE: 14-21-84 SYSTEM: SAFETY INJ. TAG: 2SI-V537SA-1
QUALIF EXEMPT: N/A	TEMPERATURE	T					
QUALIF: QUALIFIED, AWAITING	PRESSURE	P					
STATUS CONFIRMATORY DATA	REL. HUMIDITY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DNG REF: CAR-2165 G-156	AGING	A					
PHYS DNG LUC: TOTAL EQUIP. LIST	SUBMERGENCE	S					
MOUNTING	FSAR ENV CAT:						
EV. DUC. LUC: W.P.O. 173662	19580 CATEG. 1A						
	APPENDIX F.						



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/MI OUTS ITEMS
	PARAMETER	ACTUAL	DEM. QUALIF.	ACTUAL		
TAG NO: 2SI-V555 SA-1	OPERABILITY	40 YEARS		OPERABILITY REVIEW		ACCEL TIME:
EQUIPMENT: VALVE TYPE	NDRH/TEST DBA	NORMAL 1 YEAR POST DBA				ACCEL TEMP:
COMPONENT: LIMIT SW.	TEMPERATURE	120° F NORM 385° F FOR DBA		FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		REPLACEMENT:
MANUFACTURER: NAMCO	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA		FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1(DBA)		MAINTAIN.:
MAJOR SUPPLIER: COPEL VULCAN	RELATIVE HUMIDITY	40% NORM 100% DBA		FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3(DBA)		SUBCOMPONENTS:
MODEL AND SERIAL #	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0		FSAR SECT. 3.11.5.1		
FUNCTIONS & SERVICE	R GAMMA A BETA D SHIELD T.I.D.	1.1E6 1.7E7 100% BETA 1.15E6		FSAR FIG. 3.11B-18 CONT. RAD. ZONE		
ACCUR. SPEC: N/A	AGE-INST LIFE (PER 323-1979 DEF.)	40 YEARS		10 CFR 50 PARAGRAPH 50.51		SAFETY FUNCTION: CONTAINMENT ISOLATION
ACCUR. DEM.: N/A	SURHERGED	228.3		FSAR SECTION 3.6		AUTH. REFERENCE:
SPECIFICATIONS:	INSTALL. REF:					
P.O. # 183622 CHD # 1 SH.# 421	QUALIF EXEMPTN:	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:		QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:
PLANT LOC.: C.B.	OPERABILITY		O	REFERENCES: FLOW DIAG. 2165-6809 VENDOR DWG. 1364-2937		REVISION # : DATE : SYSTEM : SAFETY INJECTION TAG : 2 SI V555 SA-1
COORDINATES X= 1540.0 Y= 1651.0 Z= 255.0	TEMPERATURE		T			
INSTALLED (Y/II):	PRESSURE		P			
INSTALL. REF:	REL. HUMIDTY		H			
QUALIF EXEMPTN:	CHEM. SPRAY		C			
*****	RADIATION		R			
*****	AGING		A			
PHYS DWG REF: CAR 2165 G154	SURHERGENCE		S			
PHYS DWG LOC:	FSAR ENV CAT:		A			
MOUNTING:	FSAR CATEG.:					
EQ. DOC. LOC:	APPENDIX E					

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: 2SI-V555SA-1	OPERABILITY	40 YEARS	OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT: VALVE	NONH/TEST DBA	NORMAL 1 YEAR POST DBA				ACCEL TEMP
COMPONENT: SOLENOID V.	TEMPERATURE	120°F NORM	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1			REPLACEMENT
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. 52 PSIA FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)			MAINTAIN.
MAJOR SUPPLIER: COPEL VULCAN	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)			SUBCOMPONENTS
MODEL AND SERIAL #	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1			
FUNCTION & SERVICE	R GAMMA A BETA D SHIELD T.I.D.	1.1 EG 1.7 E7 100% BETA 1.15 EG	FSAR FIG. 3.11.2-18 CONT. RAD. ZONE C3			
ACCUR. SPEC: N/A	AGE-INST LIFE	40 YEARS	10 CFR 50 PARAGRAPH 50.51			SAFETY FUNCTION: CONTAINMENT ISOLATION
ACCUR. DEH.: N/A	(PER 323-1974 DEF.)					
SPECIFICATIONS:	SUBMERGED	228.3 YES	FSAR SECTION 3.6			AUTH. REFERENCE
P.O. # 103622 CHD # 1 SH # 421	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
PLANT LOC.: C.B.	OPERABILITY	O	REFERENCES: FLOW DIAG. 2165 G809 VENDOR DWG. 1364-2937			REVISION # : DATE : SYSTEM : SAFETY INJECTION
COORDINATES X=1540.0 Y=1651.0 Z=255.0	TEMPERATURE	T				
INSTALLED (Y/11):	PRESSURE	P				
INSTAL. REF:	REL. HUMIDTY	H				
QUALIF EXEMPTN:	CHEM. SPRAY	C				
STATUS	RADIATION	R				
	AGING	A				
	SUBMERGENCE	S				
PHYS DWG REF: CAR 2165 G154	FSAR ENV CAT	A				
PHYS DWG LUC:	10500 CATEG.					
MOUNTING	APPENDIX E					
EQ. DUC. LUC:						TAG : 2SI V555SA-1

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	UNITS
	PARAMETER	ACTUAL	DEH.	QUALIF.			
TAG NO: 2SI-V5705B-1	OPERABILITY	40 YEARS	140 YEARS	OPERABILITY TEST REPORT	TEST REPORT		ACCEL TIME: 15092 HOURS
EQUIPMENT TYPE: VALVE GATE	TEMPERATURE	NORMAL	NORMAL	REVIEW	SEC. 4.1 PAGE III		ACCEL TEMP: 180°C
COMPONENT: MOTOR	NORM/TEST DUA	1 YEAR	1 YEAR	FSAR TABLE 9.4.0-1	SEC. 3.6 (4.6) PAGE 11 & 25	NONE	REPLACEMENT: 40 YEARS
MANUFACTURER: LIMITORQUE	TEMPERATURE	120°F NORM	144°F NORM	FSAR FIG. 3.11.4.1 FOR DBA	SRS TABLE PAGE 1C THRU 6C	NONE	MAINTAIN.
MAJOR SUPPLIER: WESTHS.	PRESSURE	ATMOS. NORM	ATMOS. NORM	FSAR SECT. 3.11.6 NORM. FIG.	REPORT 60045G PAGE 10 & 14	NONE	SUBCOMPONENTS: TORQUE & LIMIT SW.
MODEL AND SERIAL: SB-1	RELATIVE HUMIDITY	40% NORM	100% NORM	FSAR TABLE 9.4.0-1 NORM	SRS TABLE PAGE 2B	NONE	
FUNCTION & SERVICE: SAFETY INJ. & SERVICE SERVING VALVE 2SI-V5705B-1	CHEMICAL SPRAY	2000-2100 PPM BORON	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	NONE	
ACCUR. SPEC: N/A	R GAMMA	6.2 ES	130 EG	FSAR APP. 3.11.B-20	TEST REPORT SEC. 4.3 PAGE 12	NONE	
ACCUR. DEF: N/A	A BETA	1.8 E7	74 EG	CONT. RAD. ZONE C2	SRS TABLE P. IF THRU 3F	NONE	
SPECIFICATIONS: W. PROJ. SPEC. 952065 02 SIM. E. SPEC. 678852 02	D SHIELD	100% BETA	100% BETA			NONE	
P.O. #173662 CHD # 15H.#0417	T.I.D.	6.7 ES	204 EG			NONE	
PLANT LOC: C.B.	AGE - INST LIFE (PER 323-1979 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 3.1.1 PAGE 3	NONE	SAFETY FUNCTION: SEE TAB 'B' OF HE-1
COORDINATES X-1545.0 Y-1644.0 Z-190.0	SURMERGED	228.3	N/A	FSAR SECTION 3.6	SRS TABLE PAGE 1A	NONE	AUTH. REFERENCE: M.J.H.
INSTALLED (Y/N):	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE HE-1
INSTAL. REF: BY FLD.	OPERABILITY	O HE-1	REFERENCES: FLOW DIAG. CAR-2165 G-810 LIMITORQUE TEST REPORT 60045G				REVISION # 10 DATE 14-21-84 SYSTEM SAFETY INJ. TAG 2SI-V5705B-1
QUALIF. EXEMPT: N/A	TEMPERATURE	T					
QUALIF. QUALIFIED, AWAITING	PRESSURE	P					
STATUS CONFIRMATORY DATA	REL. HUMIDTY	H					
	CHEM. SPRAY	C					
	RADIATION	R					
PHYS DNG REF: CAR-2165 G-151	AGING	A					
PHYS DNG LUC: TOTAL EQUIP. LIST	SURMERGENCE	S					
MOUNTING	FSAR ENV CAT						
EDUC. LUC: W. P.O. 173662	1958 CATEG. 1A						
	APPENDIX E						



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/A	OUTS ITEMS	
	PARAMETER	ACTUAL	DESIGN	QUALIF.				ACTUAL
TAG NO: 25I-V5715A-1	OPERABILITY	40 YEARS	140 YEARS	OPERABILITY REVIEW	TEST REPORT SEC. 4.1 PAGE III, SEC. 3.6		ACCEL TIME: 15092 HOURS	
EQUIPMENT TYPE: VALVE GATE	MONITORING	1 YEAR	1 YEAR		TEST TYPE 4.6 PAGE 11f25		ACCEL TEMP: 180°C	
COMPONENT: MOTOR	TEMPERATURE	120°F NORM	144°F NORM.	FSAR TABLE 9.4.0-1	SRS TABLE PAGE 1C THRU 6C	COMB. TYPE TEST & SUPP. REVIEW	REPLACEMENT: 40 YEARS	
MAINTENANCE: LIMITORQUE		FSAR FIG. 3.11.4.111	1385°F DBA	3.11.4-1		H	MAINTAIN.	
MAJOR SUPPLIER: WESTHS.	PRESSURE	ATMOS. NORM.	ATMOS. NORM.	FSAR SECT. 3.11.6 NORM.	REPORT 600456 PAGE 10 & 14	COMB. TYPE TEST & SUPP. REVIEW	SUBCOMPONENTS: TORQUE & LIMIT SW.	
MODEL AND SERIAL: SB-1	RELATIVE HUMIDITY	40% NORM	100% NORM.	FSAR TABLE 9.4.0-1 NORM.	TEST REPORT SECT. 4.4.3 PAGE 18	COMB. TYPE TEST & SUPP. REVIEW	SEE TABLE PAGE 1E	
FUNCTION & SERVICE: SAFETY INJ. SERVING VALVE 25I-V5715A-1		100% DBA	100% DBA	FSAR SECT. 3.11.4.3 (DBA)	SRS TABLE PAGE 1E	H		
ACCUM. SPEC: N/A	CHEMICAL SPRAY	2000-2100 PPM BORON	3000 PPM BORON	FSAR SECT. 3.11.5.1	TEST REPORT SECT. 4.4.2 PAGE 17	COMB. TYPE TEST & SUPP. REVIEW	H NONE	
ACCUM. DES. N/A	R GAMMA	6.2 ES	130 EG	FSAR APP. 3.11.8-20	TEST REPORT SECT. 4.3 PAGE 12	COMB. TYPE TEST & SUPP. REVIEW	SEE TABLE PAGE 1G	
SPECIFICATIONS: W.E. SPEC. 678852 02	A BETA	1.8 E7	74 EG	CONT. RAD. ZONE C2	SRS TABLE PAGE 1G THRU 3G	H		
P.O. # 173662 CHD # 15H#0416	D SHIELD	100% BETA	100% BETA					
PLANT LOC.: C.B.	T.I.D.	6.7 ES	204 EG					
COORDINATES X-1455.0 Y-1644.0 Z-190.0	AGE - INST LIFE (PER 323-1979 DEF.)	40 YEARS	456 YEARS	10 CFR 50 PARAGRAPH 50.51	TEST REPORT SECT. 3.1.1 PAGE 3	COMB. TYPE TEST & SUPP. REVIEW	SEE TABLE PAGE 1F	
INSTALLED (Y/N): BY H.D.	SUBMERGED	228.3		FSAR SECTION 3.6	N/A			
QUALIF. EXEMPT: N/A		NO	N/A		SRS TABLE PAGE 1A	N/A	AUTH. REFERENCE: M.J.H.	
QUALIF. STATUS: QUALIFIED, AWAITING CONFIRMATORY DATA	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE: HE-1	
PHYS. DNG REF: CAR-2165 G-151	OPERABILITY	O HE-1	REFERENCES: FLOW DIAG. CAR-2165 G-810 LIMITORQUE TEST REPORT 600456				REVISION # : 0 DATE : 14-21-84 SYSTEM : SAFETY INJ. TAG : 25I-V5715A-1	
PHYS. DNG LUCI TOTAL EQUIP. LIST MOUNTING	TEMPERATURE	T						
EU. DOC. LUCI W/ P.O. 173662	PRESSURE	P						
	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
	AGING	A						
	SUBMERGENCE	S						
	FSAR ENV CAT: 10500 CATEG. 1A							
	APPENDIX E							



EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	H/M	OUTS ITEMS		
	PARAMETER	ACTUAL	DEH.	QUALIF.					ACTUAL
TAG NO: ZWG-D590SA-1	OPERABILITY	40 YEARS			OPERABILITY REVIEW		/	ACCEL TIME	
EQUIPMENT TYPE: VALVE DIAPH.	NORM/TEST DBA	NORMAL 1 YEAR POST DBA						ACCEL TEMP	
COMPONENTS: SOLENOID	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		/ H	REPLACEMENT	
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA			FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)		/ H	MAINTAIN.	
MAJOR SUPPLIER: GRINNELL	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		/ H	SUBCOMPONENTS	
MODEL AND SERIAL #: FT 831654	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1		/ H		
FUNCTIONS & SERVICE: WASTE PROC. (GAS) SERVING VALVE ZWG-D590SA-1	R GAMMA	1.2 EG			FSAR APP. 3.11.8-18 CONT. RAD. ZONE C3		/ H		
ACCUM. SPEC: N/A	D BETA SHIELD	3.3 E7							
ACCUM. DEH.: N/A	T.I.D.								
SPECIFICATIONS: W.P. PROJ. SPEC. 952067 02 VLE SPEC. 678845 01	AGE - INST LIFE	40 YEARS			10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION	
P.O. # 191003 CHD # ISM#0563	(PER 323-1974 DEF.)								
PLANT LOC.: C.B. 21	SURMERGED	228,3 YES		N/A	FSAR SECTION		/ N/A	AUTH. REFERENCE	
COORDINATES X- 1507.0 Y- 1638.0 Z- 242.0									
INSTALLED (Y/M): BY FLD.	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE:		
INSTALL. REFI: N/A	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-2165 G-813						
QUALIF. EXEMPT: N/A	TEMPERATURE	T							
QUALIF. STATUS	PRESSURE	P							
	REL. HUMIDTY	H							
	CHEM. SPRAY	C							
	RADIATION	R							
PHYS DNG REFI: CAR-2166 G4-50	AGING	A					REVISION #		
PHYS DNG LUCI: TOTAL EQUIP. LIST	SURMERGENCE	S					DATE		
HOUSING: N/A	FSAR ENV CAT: A						SYSTEM: WASTE PROC. (GAS)		
ED. DOC. LUCI: 3.2	OS88 CATEG.:						TAG: ZWG-D590SA-1		
	APPENDIX E								

AVE: EBRACH SERVICES INC.
 UTILITY: OLINA PUMER & LIGHT

FACILITY: SHEARON HADVIS 110.1
 COMPONENT EVALUATION SET

ISS: WESTINGHOUSE - PHW
 CAPACITY: 900 MW(E)

HEVN- 0
 ESB-

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: 2WG-D5905A-1	OPERABILITY	40 YEARS	OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT TYPE: VALVE DIAPH.	NORM/TEST DBA	1 YEAR POST DBA				ACCEL TEMP
COMPONENT: LIMIT SW.	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		/	REPLACEMENT
MANUFACTURER: NAMCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)		/	MAINTAIN.
MAJOR SUPPLIER: GRINNELL	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM FSAR SECT. 3.11.4.3 (DBA)		/	SUBCOMPONENTS
MODEL AND SERIAL #: EA170-14302	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1		/	
FUNCTIONS & SERVICE: WASTE PROC. (GAS) SERVING VALVE 2WG-D5905A-1	R GAMMA	1.2 E6	FSAR APP. 3.11.8-18		/	
ACCUR. SPEC: N/A	A BETA	3.3 E7	CONT. RAD. ZONE		/	
ACCUR. DEH.: N/A	D SHIELD				/	
SPECIFICATIONS: N. PROJ. SPEC. 952067 02 W.E. SPEC. 678845 01	AGE - INST LIFE (PER 523-1979 DEF.)	40 YEARS	10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION
P.O. #: 191003 CND # 15H#0563	SUBMERGED	228.3 YES	FSAR SECTION		/	
PLANT LOC.: C.B21					/	
COORDINATES X- 1507.0 Y- 1638.0 Z- 242.0					/	
INSTALLED (Y/N): BY FLD.	PARAMETER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:			QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
QUALIF EXEMPT: N/A	OPERABILITY	O	REFERENCES: FLOW DIAG. CAR-21659-813			
QUALIF:	TEMPERATURE	T				
STATUS:	PRESSURE	P				
	REL. HUMIDTY	H				
	CHEM. SPRAY	C				
	RADIATION	R	REVISION #			
PHYS DNG REF: CAR-21669450	AGING	A	DATE			
PHYS DNG LUC: TOTAL EQUIP. LIST	SUBMERGENCE	S	SYSTEM: WASTE PROC. (GAS)			
MOUNTING: N/A	FSAR ENV CAT:	A	TAG: 2WG-D5905A-1			
EDUC. LUC: 9.2	10500 CATEG.					
	APPENDIX E					

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION		QUALIF. METHOD	N/H/OUTS	ITEMS	
	PARAMETER	ACTUAL	DEH.	QUALIF.				ACTUAL
TAG NO: 2WL-L6005A-1	OPERABILITY	40 YEARS NORMAL			OPERABILITY REVIEW			ACCEL TIME
EQUIPMENT TYPE: VALVE	NDIR/TEST DUA	1 YEAR POST DBA				/		ACCEL TEMP
COMPONENT: SOLENOID	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA			FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1	/		REPLACEMENT
MANUFACTURER: ASCO	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA			FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)	/		MAINTENANCE
MAJOR SUPPLIER: COPE'S VULCAN	RELATIVE HUMIDITY	40% NORM 100% DBA			FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)	/		SUBCOMPONENTS
MODEL AND SERIAL #: HT 8300864-RF	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0			FSAR SECT. 3.11.5.1	/		
FUNCTIONS & SERVICE: WASTE PROC. (LIQUID) SERVING VALVE 2WL-L6005A-1	R GAMMA A BETA D SHIELD				FSAR APP. 3.11.8 CONT. RAD. ZONE	/		
ACCUR. SPEC: N/A	AGE - INST LIFE	40 YEARS (PER 325-1974 DEF.)			10 CFR 50 PARAGRAPH 50.51	/		SAFETY FUNCTION
ACCUR. DEH.: N/A	SUBMERGED	228.3 YES			FSAR SECTION	/		
SPECIFICATIONS: W. PROJ. SPEC. 678959.02 SITE SPEC. 678844.02			N/A			N/A		AUTH. REFERENCE
P.O. # 183622 CND # 15H#0562								
PLANT LOC.: C.B. 11								
COORDINATES: X-1497.0 Y-1638.0 Z-230.0								
INSTALLED (Y/M):	PARA-METER	SUPPL. REVIEW	OTHER EQUIPMENT THIS CES APPLIES TO:				QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE	
INSTAL. REFI: BY FLD.	OPERABILITY	O	REFERENCES: FLOW DIAG. CAP-2165 9-813				REVISION # DATE SYSTEM: WASTE PROC. (LIQUID) TAG: 2WL-L6005A-1	
QUALIF. EXEMPT: N/A	TEMPERATURE	T						
QUALIF. STATUS	PRESSURE	P						
	REL. HUMIDTY	H						
	CHEM. SPRAY	C						
	RADIATION	R						
	AGING	A						
	SUBMERGENCE	S						
PHYS DNG REFI:	FSAR ENV CAT:	A						
PHYS DNG LUCI: TOTAL EQUIP. LIST	OSOR CATEG.:							
HOUSING: N/A	APPENDIX E							
EDUC. LUCI: 3.2								

AVES ENGINE SERVICES INC.
 UTILITIES: CAROLINA POWER & LIGHT

FACILITY: SHEARON HILLS NO. 1
 COMPONENT EVALUATION SHEET

ISSUE: WESTINGHOUSE - PWH
 CAPACITY: 900 MW(E)

REV# 0
 CES#

EQUIPMENT DESCRIPTION	ENVIRONMENT		DOCUMENTATION	QUALIF. METHOD	N/M	OUTS ITEMS
	PARAMETER	ACTUAL				
TAG NO: <i>2WL-L6005A-1</i>	OPERABILITY	40 YEARS NORMAL	OPERABILITY REVIEW		/	ACCEL TIME
EQUIPMENT TYPE: <i>VALVE LEVEL CONTR.</i>	NORM/TEST DBA	1 YEAR POST DBA				ACCEL TEMP
COMPONENT: <i>LIMIT SW.</i>	TEMPERATURE	120°F NORM FSAR FIG. 3.11.4-1 FOR DBA	FSAR TABLE 9.4.0-1 FSAR FIG. 3.11.4-1		H	REPLACEMENT
MANUFACTURER: <i>NAMCO</i>	PRESSURE	ATMOS. NORM. SEE FSAR FIG. 3.11.6-1 FOR DBA	FSAR SECT. 3.11.6 NORM. FIG. 3.11.6-1 (DBA)		H	MAINTAIN.
MAJOR SUPPLIER: <i>COPE'S VULCAN</i>	RELATIVE HUMIDITY	40% NORM 100% DBA	FSAR TABLE 9.4.0-1 NORM. FSAR SECT. 3.11.4.3 (DBA)		H	SUBCOMPONENTS
MODEL AND SERIAL #: <i>D2400X</i>	CHEMICAL SPRAY	2000-2100 PRM BORON PH 8.5-11.0	FSAR SECT. 3.11.5.1		H	
FUNCTIONS & SERVICE: <i>WASTE PROC. (LIQUID) SERVING VALVE 2WL-L6005A-1</i>	R GAMMA A BETA D SHIELD T.I.D.		FSAR APP. 3.11.8 CONT. RAD. ZONE		H	
ACCUR. SPEC: <i>N/A</i>	AGE-INST LIFE (PER 323-1974 DEF.)	40 YEARS	10 CFR 50 PARAGRAPH 50.51		/	SAFETY FUNCTION
ACCUR. DEM.: <i>N/A</i>	SUBMERGED	228.3 YES	FSAR SECTION		N/A	AUTH. REFERENCE
SPECIFICATIONS: <i>W. PROJ. SPEC. 678959 02 N.E. SPEC. 678844 02</i>	OTHER EQUIPMENT THIS CES APPLIES TO:					QUALIFICATION SIGN-OFF FOUND IN DOCUMENTATION PACKAGE
P.O. # <i>83622</i> CHD # <i>15H#0562</i>	APPENDIX E		REFERENCES: <i>FLOW DIAG. CAR-21659-813</i>			REVISION # DATE
PLANT LOC.: <i>C.B.11</i>	ISAR ENV CAT: <i>A</i>					SYSTEM: <i>WASTE PROC. (GAS)</i>
COORDINATES: <i>X=1497.0 Y=1638.0 Z=230.0</i>	1958 CATEG.:					TAG: <i>2WL-L6005A-1</i>
INSTALLED (Y/M):						
INSTAL. REF: <i>BY FLD.</i>						
QUALIF EXEMPT: <i>N/A</i>						
QUALIF STATUS:						
PHYS DNG REF:						
PHYS DNG LOC: <i>TOTAL EQUIP LIST</i>						
MOUNTING: <i>N/A</i>						
EQ. DUC. LOC: <i>9.2</i>						

