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AUTH.NAME AUTHOR AFFILIATION
CURTIS,N.W. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Forwards listings of Reg Guide 1.97 Rev 2,instrument status of equipment qualification for post-accident monitoring equipment,in response to SER,Suppl 5.Qualification of equipment will be completed by 850331 for Unit 2.

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Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215/770-7501

JUN 20 1983

Director of Nuclear Reactor Regulation
Attention: Mr. A, Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
RESPONSE TO SER SUPPLEMENT 5
ITEM 3.11.1(1)(C)
ER 100450 FILE 843
PLA-1720

Docket Nos. 50-387
50-388

Dear Mr. Schwencer:

This letter and the attached listings of Regulatory Guide 1.97 post-accident monitoring equipment are provided in response to Susquehanna SER Section 3.11.1(1)(a). The listings provided identify the qualification status for each component. Qualification of this equipment will be completed no later than the end of the first refueling outage for Unit 1 and March 31, 1985 for Unit 2.

This letter completes our response to this item.

Very truly yours,

N. W. Curtis
Vice President-Engineering & Construction-Nuclear

Attachment

cc: R. L. Perch - NRC

A048
1/1

R.G. 1.97, Rev. 2, INSTRUMENTS

STATUS OF

EQUIPMENT QUALIFICATION

UNIT 1

5/26/83

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
Rx Press. Vessel Press.	A	PT-14201A/B	Ind. Recorder LR/PR-14201 A/B Panel 1C601 PI-14201 A1/B1, A2/B2	Will Comply 10CFR50.49 RG 1.100	By First Re-fuel Load
Rx Press. Vessel Lvl	A	LT-14201C/D LT-14201A/B LT-14202A/B	[1]Wide Range on Ind. Recorder LR/PR-14201 A/B LI-14201 C1/D1 LI-14201 C2/D2 Panel 1C601 [2]Upset Range LI-14201 A1/B1 LI-14201 A2/B2 Panel 1C601 [3]Fuel Zone Range LI-14202 A/B Panel 1C601	Will Comply to 10CFR50.49 RG 1.100	By First Re-fuel Load
Containment Press.	A	PT-15710A/B	Ind. Recorder PR-15710 A/B Panel 1C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Containment (DRWL) Temp.	A	TT-15790A/B	Ind. Recorder TR-15790 A1/B1 Panel 1C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Containment H2/02 Concentration	A	AE-15745A/B AE-15746A/B	Ind. Recorder AR-15746A/B Panel 1C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Supp Pool Level	A	LT-15776A/B	Ind. Recorder LR-15776A/B Panel 1C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Supp Pool Temp	A	Avg. of 8 TE's per Channel	Ind. Meter (DIG. Display) TIAH-15751/52 Panel 1C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Neutron Flux	B	NE-15725A/B NE-15726A/B	Indicating Meter NI-15723A/B NI-15724A/B NI-15725A/B NI-15726A/B Panel 1C652	Will Comply w/ 10CFR50.49 RG 1.100	By First Re-fuel Load

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
Control Rod Posn	B	CRDM Position Switches	Rod Posn. Display Panel 1C651	N/A	Installed
RCS Soluble Boron Concentration Grab Sample	B	Portable Instruments	N/A	N/A	Installed
Coolant Level in Rx	B		See Type A Variables		
BWR Core Temps	B	See Note 1			
RCS Press.	B		See Type A Variables		
Containment (DRWL) Press.	B		See Type A Variables		
Drywell Sump Lvl	B	See Note 1			
Primary Contn Press.	B		See Type A Variables		
Primary Containment ISO VLV Posn (excluding check valves)	B	Valve Limit Switches	Status Lights Panel 1C601 1C651 1C668	See Note 2	Installed
Radioactivity Concentration or Radiation Level in Circulating Coolant	C	See Note 1			
Analysis of Primary Coolant (Gamma Spectrum)	C	Portable Instruments	N/A	N/A	Installed
BWR Core Temps	C	See Note 1			
RCS Press	C		See Type A Variables		
Primary Contn Area Radiation	C	RE-15755A1/B1	Ind. Recorder RR-15755A/B Panel 1C693	Complies w/ 10CFR50.49 RG 1.100	Installed
DRWL Sump Lvls	C		See Type B Variables		
Supp Pool Wtr Lvl	C		See Type A Variables		

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
DRWL Press.	C		See Type A Variables		
RCS Press.	C		See Type A Variables		
Primary Contn Press.	C		See Type A Variables		
Containment H2/02 Concentration	C		See Type A Variables		
Containment Effluent Radioactivity Noble Gases	C	Vent Monitoring Panels 1C159B and 1C216B	RR-06520A/B Panel 0C669 0C677	N/A	Installed
Radiation Exposure Rate (Inside Buildings)	C	Reactor Bldg ARM's	Indicators in Relay Room and Plant Process Computer	See Note 2	By First Re-Fuel Load
Effluent Radioactivity Noble Gases	C	Vent Monitoring Panels 1C159B 1C216B	Ind. Recorder RR-06520A,B Panel 0C669 0C677	See Note 2	Installed
Main Feedwater Flow	D	FT-1N002A/B/C	Ind. Meter C32-1R601A/B/C Panel 1C657	N/A	Installed
Condensate Storage Tank Lvl	D	LT-00812A/B	Ind. Recorder LR-00812 Panel 0C653	N/A	Installed
Supp Chamber Spray Flow	D	FT-15121A/B	Ind. Meter FI-15120A/B Panel 1C601	Will Comply w/ 10CFR50.49 RG 1.100	By First Re-Fuel Load
Drywell Press	D		See Type A Variables		
Supp Pool Wtr Lvl	D		See Type A Variables		
Supp Pool Wtr Temp	D		See Type A Variables		
Drywell Atmos Temp	D		See Type A Variables		

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
Drywell Spray Flow	D	FT-15120A/B	Ind. Meter FI-15120A/B Panel 1C601	Will Comply w/ 10CFR50.49 RG 1.100	By First Re-Fuel Load
Main Stm ISO VLV Leak Control Sys Pressure	D	E32-1N053	Ind. Meter	Will Comply w/ 10CFR50.49 RG 1.100	By First Re-Fuel Load
SRV Position	D	VT on each SRV	LED Status Indication Panel 1C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Isolation Condenser System Shell-side Water Level	D	N/A	N/A	N/A	N/A
Isolation Condenser System Valve Posn.	D	N/A	N/A	N/A	N/A
RCIC Flow	D	FT-1N003	Ind. Meter FI-1R600-1 Panel 1C601	Will Comply w/ 10CFR50.49 Rg 1.100	By First Refuel Load
HPCI Flow	D	FT-1N008	Ind. Meter FI-1R600-1 Panel 1C601	Will Comply w/ 10CFR50.49 RG 1.100	By First Refuel Load
Core Spray Flow	D	FT-1N003A/B	Ind. Meter FI-1R601-A/B Panel 1C601	Will Comply w/ 10CFR50.49 RG 1.100	By First Refuel Load
LPCI System Flow	D		See RHR System Flow (Type D Variable)		
SLCS Flow	D	FE-14806	Ind. Meter FI-14806 Panel 1C601	Will Comply w/ 10CFR50.49 RG 1.100	By First Refuel Load
SLCS Storage Tank Lvl	D	LT-1N001	Ind. Meter LI-1R601 Panel 1C601	Will Comply w/ 10CFR50.49 RG 1.100	By First Re-Fuel Load
RHR System Flow	D	FT-1N015	Ind. Meter FI-1R601, Panel 1C601	Will Comply w/ 10CFR50.49 RG 1.100	By First Re-Fuel Load

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
RHR HX Out Temp	D	TE-11205A/B	Ind. Meter TI-11205A/B	Will Comply w/ 10CFR50.49 RG 1.100	By First Re-Fuel Load
Cooling Wtr Temp to ESF Systems Comp	D	TE-01106A/B	Ind. Meter TI-01106A/B 0C653	Will Comply w/ 10CFR50.49 RG 1.100	By First Re-Fuel Load
Cooling Wtr Flow to ESF Systems Comp	D	TE-01109A1/B1	Ind. Meter FI-01109A1/B1 0C653	Will Comply w/ 10CFR50.49 RG 1.100	By First Re-Fuel Load
Hi Radioactivity Liquid Tank Level	D	Individual Tank Level Transmitters	Ind.Tank Indicators	N/A	Installed
Emergency Ventilation Damper Position	D	Damper Limit Switches	Ind. Lights on 1C681 and 0C681	See Note 2	Installed
Status of Standby Power Important to Safety	D See Following Two Variables				
Instr Gas Bottle Press.	D	PT-12649 PT-12644	Ind. Meters PI-12649 PI-12644 Panel 1C601	Will Comply w/ 10CFR50.49 RG.1.100	By First Re-Fuel Load
Diesel Gen. Amps/Volts	D	XI-00033 A thru D XI-00035 A thru D	Ind. Meters Panel 0C653	See Note 2	Installed
Primary Containment Area Radiation	E	RE-15720A,B	Ind. Recorder RR-15720A/B Panel 1C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Reactor Bldg. Area Rad.	E	Reactor Building ARM's	Multipoint Recorder Panel 1C600 and Plant Process Computer	See Note 2	By First Re-Fuel Load

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
Effluent Radioactivity (Noble Gases,and Particles Halogens, and Flow Rates)	E	Vent Monitoring Panels 1C159B and 1C216B	Ind. Recorder RR-06520A,B Panel 1C669/677	See Note 2	Installed
Environs Radiation (Fixed Locations)	E	N/A	N/A	N/A	N/A
Airborne Radiohalogens and Particulates	E	Portable Instruments	N/A	N/A	Installed
Plant and Environs Radiation	E	Portable Instruments	N/A	N/A	Installed
Plant and Environs Radioactivity	E	Portable Instruments	N/A	N/A	Installed
Wind Direction	E	XXE-03702 XXE-03204 XXE-03731	XTR-03702 XTR-03704 XTR-03731	N/A	Installed
Wind Speed	E	XSE-03701 XSE-03703	XTR-03701 XTR-03703 XTR-03730	N/A	Installed
Estimation of Atmos. Stability	E	XXE-03702 XXE-03704	XTR-03709 XTR-03710	N/A	Installed
Accident Sampling Capability (Analysis Capability on Site)	E	Portable Instruments	N/A	N/A	Installed

jb/mee099i:pas

NOTES:

1. PP&L will take exception to the inclusion of this variable in R.G.-1.97, Rev. 2. The justification for this position will be supplied as part of PP&L's response to Generic Letter 82-33. A schedule for this response was forwarded to the NRC by letter PLA-1621, dated April 15, 1983.

2. PP&L will take exception to portions of the design criteria as specified in R.G.-1.97, Rev. 2. The justification for this position will be supplied as part of PP&L's response to Generic Letter 82-33. A schedule for this response was forwarded to the NRC by letter PLA-1621, dated April 15, 1983.

jb/mee099ii:pas

R.G. 1.97, Rev. 2, INSTRUMENTS

STATUS OF

EQUIPMENT QUALIFICATION

UNIT 2

5/20/83

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
Rx Press. Vessel Press.	A	PT-24201A/B	Ind. Recorder LR/PR-24201 A/B Panel 2C601 PI-24201 A1/B1, A2/B2	Will Comply 10CFR50.49 RG 1.100	By March 31, 1985
Rx Press. Vessel Lvl	A	LT-24201C/D LT-24201A/B LT-24202A/B	[1]Wide Range on Ind. Recorder LR/PR-24201 A/B LI-24201 C1/D1 LI-24201 C2/D2 Panel 2C601 [2]Upset Range LI-24201 A1/B1 LI-24201 A2/B2 Panel 2C601 [3]Fuel Zone Range LI-24202 A/B Panel 2C601	Will Comply to 10CFR50.49 RG 1.100	By March 31, 1985
Containment Press.	A	PT-25710A/B	Ind. Recorder PR-25710 A/B Panel 2C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Containment (DRWL) Temp.	A	TT-25790A/B	Ind. Recorder TR-25790 A1/B1 Panel 2C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Containment H2/02 Concentration	A	AE-25745A/B AE-25746A/B	Ind. Recorder AR-25746A/B Panel 2C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Supp Pool Level	A	LT-25776A/B	Ind. Recorder LR-25776A/B Panel 2C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Supp Pool Temp	A	Avg. of 8 TE's per Channel	Ind. Meter (DIG. Display) TIAH-25751/52 Panel 2C601	Complies w/ 10CFR50.49 RG 1.100	Installed

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
Neutron Flux	B	NE-25725A/B NE-25726A/B	Indicating Meter NI-25723A/B NI-25724A/B NI-25725A/B NI-25726A/B Panel 2C652	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
Control Rod Posn	B	CRDM Position Switches	Rod Posn. Display Panel 2C651	N/A	Installed
RCS Soluble Boron Concentration Grab Sample	B	Portable Instruments	N/A	N/A	Installed
Coolant Level in Rx	B		See Type A Variables		
BWR Core Temps	B	See Note 1			
RCS Press.	B		See Type A Variables		
Containment (DRWL) Press.	B		See Type A Variables		
Drywell Sump Lvl	B	See Note 1			
Primary Contn Press.	B		See Type A Variables		
Primary Containment ISO VLV Posn (excluding check valves)	B	Valve Limit Switches	Status Lights Panel 2C601 2C651 2C668	See Note 2	Installed
Radioactivity Concentration or Radiation Level in Circulating Coolant	C	See Note 1			
Analysis of Primary Coolant (Gamma Spectrum)	C	Portable Instruments	N/A	N/A	Installed
BWR Core Temps	C	See Note 1			
RCS Press	C		See Type A Variables		

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
Supp Pool Wtr Lvl	D		See Type A Variables		
Supp Pool Wtr Temp	D		See Type A Variables		
Drywell Atmos Temp	D		See Type A Variables		
Drywell Spray Flow	D	FT-25120A/B	Ind. Meter FI-25120A/B Panel 2C601	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
Main Stm ISO VLV Leak Control Sys Pressure	D	E32-N053	Ind. Meter	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
SRV Position	D	VT on each SRV	LED Status Indication Panel 2C601	Complies w/ 10CFR50.49 RG 1.100	Installed
Isolation Condenser System Shell-side Water Level	D	N/A	N/A	N/A	N/A
Isolation Condenser System Valve Posn.	D	N/A	N/A	N/A	N/A
RCIC Flow	D	FT-2N003	Ind. Meter FI-2R600-1 Panel 2C601	Will Comply w/ 10CFR50.49 Rg 1.100	By March 31, 1985
HPCI Flow	D	FT-2N008	Ind. Meter FI-2R600-1 Panel 2C601	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
Core Spray Flow	D	FT-2N003A/B	Ind. Meter FI-2R601-A/B Panel 2C601	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
LPCI System Flow	D		See RHR System Flow (Type D Variable)		
SLCS Flow	D	FE-24806	Ind. Meter FI-24806 Panel 2C601	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
Primary Contn Area Radiation	C	RE-25755A1/B1	Ind. Recorder RR-25755A/B Panel 2C693	Complies w/ 10CFR50.49 RG 1.100	Installed
DRWL Sump Lvls	C		See Type B Variables		
Supp Pool Wtr Lvl	C		See Type A Variables		
DRWL Press.	C		See Type A Variables		
RCS Press.	C		See Type A Variables		
Primary Contn Press.	C		See Type A Variables		
Containment H2/02 Concentration	C		See Type A Variables		
Containment Effluent Radioactivity Nobel Gases	C	Vent Monitoring Panels 2C159B and 2C216B	RR-06520A/B Panel 0C669 0C667	N/A	Installed
Radiation Exposure Rate (Inside Buildings)	C	Reactor Bldg ARM's	Indicators in Relay Room and Plant Process Computer	See Note 2	By March 31, 1985
Effluent Radioactivity Noble Gases	C	Vent Monitoring Panels 2C159B 2C216B	Ind. Recorder RR-06520A1B Panel 0C669 0C667	See Note 2	Installed
Main Feedwater Flow	D	FT-2N002A/B/C	Ind. Meter C32-2R601A/B/C Panel 2C657	N/A	Installed
Condensate Storage Tank Lvl	D	LT-00812A/B	Ind. Recorder LR-00812 Panel 0C653	N/A	Installed
Supp Chamber Spray Flow	D	FT-25121A/B	Ind. Meter FI-25120A/B Panel 2C601	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
Drywell Press	D		See Type A Variables		

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
SLCS Storage Tank Lvl	D	LT-2N001	Ind. Meter LI-2R601 Panel 2C601	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
RHR System Flow	D	FT-2N015	Ind. Meter FI-2R601, Panel 2C601	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
RHR HX Out Temp	D	TE-21205A/B	Ind. Meter TI-21205A/B	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
Cooling Wtr Temp to ESF Systems Comp	D	TE-01106A/B	Ind. Meter TI-01106A/B 0C653	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
Cooling Wtr Flow to ESF Systems Comp	D	TE-01109A1/B1	Ind. Meter FI-01109A1/B1 0C653	Will Comply w/ 10CFR50.49 RG 1.100	By March 31, 1985
Hi Radioactivity Liquid Tank Level	D	Individual Tank Level Transmitters	Ind.Tank Indicators	N/A	Installed
Emergency Ventilation Damper Position	D	Damper Limit Switches	Ind. Lights on 2C681 and 0C681	See Note 2	Installed
Status of Standby Power Important to Safety	D See Following Two Variables				
Instr Gas Bottle Press.	D	PT-22649 PT-22644	Ind. Meters PI-22649 PI-22644 Panel 2C601	Will Comply w/ 10CFR50.49 RG.1.100	By March 31, 1985
Diesel Gen. Amps/Volts	D	XI-00033 A thru D XI-00035 A thru D	Ind. Meters Panel 0C653	See Note 2	Installed
Primary Containment Area Radiation	E	RE-25720A,B	Ind. Recorder RR-25720A/B Panel 2C601	Complies w/ 10CFR50.49 RG 1.100	Installed

VARIABLE	TYPE	SENSOR	INDICATOR	QUALIFICATION STATUS	SCHEDULE
Reactor Bldg. Area Rad.	E	Reactor Building ARM's	Multipoint Recorder Panel 2C600 and Plant Process Computer	See Note 2	By March 31, 1985
Effluent Radioactivity (Noble Gases, and Particles Halogens, and Flow Rates)	E	Vent Monitoring Panels 2C159B and 2C216B	Ind. Recorder RR-06520A,B Panel 2C669/677	See Note 2	Installed
Environs Radiation (Fixed Locations)	E	N/A	N/A	N/A	N/A
Airborne Radiohalogens and Particulates	E	Portable Instruments	N/A	N/A	Installed
Plant and Environs Radiation	E	Portable Instruments	N/A	N/A	Installed
Plant and Environs Radioactivity	E	Portable Instruments	N/A	N/A	Installed
Wind Direction	E	XXE-03702 XXE-03204 XXE-03731	XTR-03702 XTR-03704 XTR-03731	N/A	Installed
Wind Speed	E	XSE-03701 XSE-03703	XTR-03701 XTR-03703 XTR-03730	N/A	Installed
Estimation of Atmos. Stability	E	XXE-03702 XXE-03704	XTR-03709 XTR-03710	N/A	Installed
Accident Sampling Capability (Analysis Capability on Site)	E	Portable Instruments	N/A	N/A	Installed

jb/mee099i:pas

NOTES:

1. PP&L will take exception to the inclusion of this variable in R.G.-1.97, Rev. 2. The justification for this position will be supplied as part of PP&L's response to Generic Letter 82-33. A schedule for this response was forwarded to the NRC by letter PLA-1621, dated April 15, 1983.

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