

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-305 Kewaunee Nuclear Power Plant, Wisconsin Public Service 05000305
 AUTH. NAME: SCHROCK, C.A. AUTHOR AFFILIATION: Wisconsin Public Service Corp.
 RECIP. NAME: LICCIARDO, B. RECIPIENT AFFILIATION: Commission

SUBJECT: Forwards info re qualification of certain equipment, control room indications of bypassed or inoperable safety-related equipment, Page TS6-17 of TechSpecs & listing of current Tech Spec pages, in response to NRC request.

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50-305

WISCONSIN PUBLIC SERVICE CORPORATION



P.O. Box 1200, Green Bay, Wisconsin 54305

March 27, 1980

Mr. Bob Licciardo
US Nuclear Regulatory Commission
Phillips Bldg.
7920 Norfolk Ave.
Bethesda, MD 20014

Dear Mr. Licciardo:

Enclosed are several items which you requested, including:

- 1) Information on qualification of certain equipment as requested by Doug Hacket of EG&G, in the telephone conference of 3/10/80.
- 2) Information on the Kewaunee Control Room indications of bypassed or inoperable safety related equipment, as requested by Doug Hacket.
- 3) Page TS6-17 of the Kewaunee Technical Specifications which you had requested from Mark Marchi of our staff.
- 4) A listing of current Tech. Spec. pages which Mark Marchi had also promised to you.

A copy of items (1) and (2) have been forwarded directly to Doug Hacket to aid in his review of the Kewaunee Plant.

Sincerely,

A handwritten signature in cursive script that reads "Charles A. Schrock".

Charles A. Schrock
Nuclear Licensing Supervisor

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Enc.

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INFORMATION ON EQUIPMENT QUALIFICATION

Reference: Question 7.1.3 of the Questions and Answers section of the Kewaunee FSAR.

Question 7.1.3

Identify those features of the design that do not conform to the criteria of IEEE-279 and the Commissions General Design Criteria published in the Federal Register February 20, 1971, and explain the reasons for the nonconformance.

Answer

All features of the protection system design which actuate reactor trip and engineered safety features action are designed and/or built by Westinghouse and conform to the intent of the criteria specified in IEEE-279 of August, 1968 and the AEC General Design Criteria published on February 20, 1971.

Additional info:

MG-6 latching relays and reset pushbutton switches for engineered safety features: This equipment is located in a controlled environment and is designed to operate in its expected environment. Specific qualification tests and/or calculations are typically done on the entire system (panel or rack) in which the equipment is located, and not on each individual piece of equipment.

Radiation Monitors: Kewaunee utilizes two types of radiation area monitors to provide actuation of protective systems. These are Victoreen or Westinghouse. These radiation monitors are designated QA type 1 and as such meet the intent of IEEE 279-1968, as stated in the answer to Question 7.1.3, above. Due to length and technical nature of the actual equipment specifications, I have not included them here, but will be happy to answer any specific questions which may arise.

Inverters: The Kewaunee Plant has six inverters supplying power to the instrument buses, RPI racks, the plant process computer and miscellaneous equipment throughout the plant. There are four 7.5 KVA inverters, one 5 KVA inverter and one 15 KVA inverter, all designed to operate at 60 Hz. The inverters are designed to handle their respective loads.

Kewaunee Control Room indications of bypassed or inoperable safety related equipment.

SI Ready Status Panel (44909)

The SI Ready panel is a "dark panel" which indicates the ready nature of the safety injection system. The panel display is a matrix of status lamps containing 10 rows and 6 columns of lamps. Any of the conditions monitored which results in a potentially "unready" condition will cause a bright illumination (the panel is actually not dark as a reduced current is maintained through the individual lamps to indicate lamp integrity). As an example, all motor valves in the high head and low head injection paths are monitored for proper alignment.

The attached appendix provides a complete listing of the SI Ready status panel. The Pioneer Number 44909xxyy identifies a light box as belonging to the SI Ready matrix where xx is the column (numbered 01, left to 06, right) and yy is the row (numbered 01, top, to 10, bottom).

Bypass Panel (44912)

An additional panel available to the control operators allows manual indication of equipment out of service. A wide variety of equipment is listed on this matrix composed of 12 rows by 5 columns: The listing is contained in the appendix. The operation of the panel is strictly manual action allowing the operator to indicate other equipment out of service. In addition to the pre-engraved light boxes several spare blank boxes are within the matrix. The operating crews utilize these spares to alert other personnel to any other equipment removed from service but not otherwise indicated.

Sequence of Events Recorder (SER)

A teletype (ASR33) is utilized as a hardcopy Event Recorder. While no credit is given for such a sequential recorder it should be noted that various safeguards functions are alarmed at the SER (e.g. a safety related pump placed in pull-out). The nature of the SER is such that an off normal condition remains "internally alarmed" until such time as the normal condition is reactivated. Upon request, all alarmed points will be listed and a review of the points would indicate an off-normal condition.

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Plant Annunciator System

Many additional conditions will cause an annunciation in the control room and the associated lamp will remain illuminated until the condition is corrected. Examples of these alarms are auxiliary feedwater or residual heat removal (low head safety injection) flow control valves in any position other than fully open, inadequate cooling water supply to safety injection pump lube oil coolers, etc. A complete listing of these alarms is beyond the scope of this response.

| PIONEER NUMBER *00* | SYS NO *01* | SEQ OF EVNT RECORD *02* | LIGHT BOX ENGRAVING *03* | INIT CONTACT NO.(S) *04* | INI STA *05 | CABLE NUMBER *06* | FLOW DRAWING *08* | SCHEMATIC- DRAWING(S) *09* |
|---------------------------|-------------------|----------------------------|----------------------------------|-----------------------------|-------------------|----------------------|-------------------------|----------------------------------|
| 449081005 | | | SPARE | | | | | |
| 449081006 | 04 | | FORBAY CH 2 LO-LO LEVEL | 26830 | 0 | | M215 | |
| 449081101 | | | SPARE | | | | | |
| 449081102 | 06 | | CNTMT CH 3 17 PSI | PC948A | C | | | |
| 449081103 | | | SPARE | | | | | |
| *449081104 | 23 | | CNTMT CH 3 23 PSI (948B) | PC948B | 0 | | | |
| 449081105 | | | SPARE | | | | | |
| 449081106 | 04 | | FORBAY CH 3 LO-LO LEVEL | 26831 | 0 | | M215 | |
| *449081201 | 33 | | CNTMT CH 4 4 PSI | PC947A | C | | | |
| 449081202 | 06 | | CNTMT CH 4 17 PSI | PC950A | C | | | |
| *449081203 | 23 | | CNTMT CH 4 23 PSI (947B) | PC947B | 0 | | | |
| *449081204 | 23 | | CNTMT CH 4 23 PSI (950B) | PC950B | 0 | | | |
| 449081205 | | | SPARE | | | | | |
| 449081206 | 04 | | FORBAY CH 4 LO-LO LEVEL | 26832 | 0 | | M215 | |
| 449090101 | | | SPARE | | | | | |
| 449090102 | | | SPARE | | | | | |
| 449090103 | 02 | | SW HDR 1A VLV SW 10A CL | 32011 | C | 1NC2176 | M202 | E1335 |
| 449090104 | 02 | | SW HDR 1B VLV SW 10B CL | 32012 | C | 1NC2185 | M202 | E1391 |
| 449090105 | 06 | | MS HDR 1A ISCL TST VLVS ABNRM | SEE E1906 | C | 1NC0414 | | E1906 |
| 449090106 | 06 | | MS HDR 1B ISCL TST VLVS ABNRM | SEE E1908 | C | 1NC0549 | | E1908 |

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|---------------------------|-------------------|----------------------------|----------------------------------|-----------------------------|-------------------------------------|-------------------------|---------------------------------|
| 449090201 | 24 | | SBV EXH FAN 1A TRIP NOT RESET | 42X1/1-115 | 1NCO781 | | E1383 |
| 449090202 | 24 | | SBV EXH FAN 1B TRIP NOT RESET | 42X1/1-147 | 1NCO782 | | E1439 |
| 449090203 | 24 | | SBV REC FAN 1A TRIP NOT RESET | 42X1/1-127 | 1NCO781 | | E1383 |
| 449090204 | 24 | | SBV REC FAN 1B TRIP NOT RESET | 42X1/1-145 | 1NCO782 | | E1438 |
| *449090205 | 17 | | SFP EXH FAN 1A TRIP NOT RESET | 42X1/1-339 | 1NC1133 | | E1204 |
| 449090206 | 17 | | SFP EXH FAN 1B TRIP NOT RESET | 42X1/1-340 | 1NC1133 | | E1322 |
| 449090301 | 33 | | BA SPLY TO SI PMP MV CL | 32106 | 0 1NC1110 | K10C-29 | E1371 |
| 449090302 | 33 | | BORIC ACID TNK OUT OF SERVICE | 46328 | | | |
| 449090303 | 16 | | BATT ROOMS EXH FANS STOP | 1-059-428,1-215-428 | 0 1NC3762 | | E1353,1410 |
| 449090304 | | | SPARE | | | | |
| 449090305 | 14 | | ASV EXH FAN 1A TRIP NOT RESET | CR1Y/26341 | 0 | | |
| 449090306 | 14 | | ASV EXH FAN 1B TRIP NOT RESET | CR1Y/26342 | 0 | | |
| 449090401 | 25 | | PA REC FAN 1A TRIP NOT RESET | 86/1-265 | 1NCO956 | | E1386 |
| 449090402 | 25 | | PA REC FAN 1B TRIP NOT RESET | 86/1-266 | 1NCO954 | | E1442 |
| 449090403 | 18 | | AIR CLU FAN 1A TRIP NOT RESET | CR1Y/26349 | 0 | | |
| 449090404 | 18 | | AIR CLU FAN 1B TRIP NOT RESET | CR1Y/26350 | 0 | | |
| 449090405 | 18 | | PURGE EXH FAN TRIP NOT RESET | CR1Y/26348 | 0 | | |
| 449090406 | | | SPARE | | | | |

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|---------------------------|-------------------|----------------------------|---------------------------------|-----------------------------|-------------------------------------|-------------------------|----------------------------------|
| 449090501 | 33 | | ACMT 1A CSCH MV CL | 32091 | 0 1NC1146 | K100-28 | E1343 |
| 449090502 | 33 | | ACMYR 1B DSCH MV CL | 32096 | 0 1NC3997 | K100-28 | E1399 |
| 449090503 | 33 | | RHR PMP SUCT VLV SI 300A CL | 32111 | 0 | K100-29 | |
| 449090504 | 33 | | RHR PMP SUCT VLV SI 300B CL | 32112 | 0 | K100-29 | |
| 449090505 | 33 | | SI PMP 1A SUCT VLV SI 5A CL | 32107 | 0 | K100-29 | |
| 449090506 | 33 | | SI PMP 1B SUCT VLV SI 5B CL | 32108 | 0 | K100-29 | |
| 449090601 | 33 | | RWST TEST INLT VLV SI 209 CL | 32130 | 0 1NC1113 | K100-29 | E1371 |
| 449090602 | 33 | | RWST TEST INLT VLV SI 208 CL | 32131 | 0 1NC3955 | K100-29 | E1424 |
| 449090603 | 33 | | LP A COLD LEG VLV SI 11A CL | 32092 | 0 | K100-28 | |
| 449090604 | 33 | | LP B COLD LEG VLV SI 11B CL | 32097 | 0 | K100-28 | |
| 449090605 | 33 | | SI COLD LEG VLV SI 9A CL | 32094 | 0 | K100-28 | |
| 449090606 | 33 | | SI RX VESSEL VLV SI 9B CL | 32095 | 0 | K100-28 | |
| 449090701 | 34 | | RHR HX 1A OUTLET CV CL | 31114 | 0 | K100-18 | |
| 449090702 | 34 | | RHR HX 1B OUTLET CV CL | 31115 | 0 | K100-18 | |
| 449090703 | 33 | | VESSEL SI 15A OPEN | 32098 | 0 | K100-28 | |
| 449090704 | 33 | | VESSEL SI 15B OPEN | 32093 | 0 | K100-28 | |
| 449090705 | | | SPARE | | | | |
| 449090706 | | | SPARE | | | | |

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|---------------------------|-------------------|----------------------------|---------------------------------|------------------------------|-------------------------------------|-------------------------|---------------------------------|
| 449090801 | 34 | | RHR HX BYPASS CV OPEN | 31116 | 0 | K100-13 | |
| 449090802 | | | SPARE | | | | |
| 449090803 | | | SPARE | | | | |
| 449090804 | | | SPARE | | | | |
| 449090805 | 33 | | RWST TO SI PMP MV OPEN | 32109 | 0 | K100-29 | |
| 449090806 | 33 | | RWSY TO SI PMP MV OPEN | 32110 | 0 | K100-29 | |
| 449090901 | 18 | | P LOCA A/S ISO (A) MV OPEN | 32147 | 0 | M403 | |
| 449090902 | 18 | | P LOCA A/S ISO (B) MV OPEN | 32148 | 0 | M403 | |
| 449090903 | 18 | | P LOCA H2 VENT (A) VLVS OPEN | 31386, 31387, 32145 | 0 | M403 | |
| 449090904 | 18 | | P LOCA H2 VENT (B) VLVS OPEN | 31388, 31389, 32146 | 0 | M403 | |
| 449090905 | 33 | | SI-2A THERMAL OVERLOAD TRIP | 42AX/1-368 | C | 152EC25, 155C116 | E1370 |
| 449090906 | 33 | | SI-2B THERMAL OVERLOAD TRIP | 42AX/1-370 | C | 152EC14, 156C062 | E1423 |
| 449091001 | | | SPARE | | | | |
| 449091002 | | | SPARE | | | | |
| 449091003 | | | SPARE | | | | |
| 449091004 | | | SPARE | | | | |
| 449091005 | | | SPARE | | | | |
| 449091006 | | | SPARE | | | | |
| 449091101 | | | SPARE | | | | |
| 449091102 | | | SPARE | | | | |
| 449091103 | | | SPARE | | | | |

SI Ready

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|---------------------------|-------------------|----------------------------|--|-----------------------------|-------------------------------------|-------------------------|---------------------------------|
| 449110903 | 32A | | CNTMT SMP PMPS MD(R) 134 CL | 31136 | 0 INC3967 | K100-131 | E1547 |
| 449110904 | 32A | | CNTMT SMP PMPS MD(R) 135 CL | 31137 | 0 INC1899 | K100-131 | E1548 |
| 449111001 | | | SPARE | | | | |
| 449111002 | | | SPARE | | | | |
| 449111003 | | | SPARE | | | | |
| 449111004 | | | SPARE | | | | |
| 449111101 | | | SPARE | | | | |
| 449111102 | | | SPARE | | | | |
| 449111103 | | | SPARE | | | | |
| 449111104 | | | SPARE | | | | |
| 449111201 | | | SPARE | | | | |
| 449111202 | | | SPARE | | | | |
| 449111203 | | | SPARE | | | | |
| 449111204 | | | SPARE | | | | |
| 449120101 | 06 | | MAIN STEAM SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449120102 | 05A | | FEEDWATER SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449120103 | 05B | | AUX FEEDWATER SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449120104 | 02 | | SERVICE WATER SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449120105 | 48 | | START-UP PANEL IN SERVICE | | | | |

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|---------------------------|-------------------|----------------------------|---|-----------------------------|-------------------------------------|-------------------------|---------------------------------|
| 449120201 | 06 | | MAIN STEAM SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449120202 | 05A | | FEEDWATER SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449120203 | 05B | | AUX FEEDWATER SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449120204 | 02 | | SERVICE WATER SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449120205 | ESF | | SPARE | | | | |
| 449120301 | 33 | | SAFETY INJECT SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449120302 | 18 | | CONTAINMENT ISOLATION TRAIN A OUT OF SERVICE | | | | |
| 449120303 | 23 | | INTERNAL CNTMT SPRAY SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449120304 | 42 | | DIESEL GEN ELECT SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449120305 | 10 | | DIESEL GEN MECH SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449120401 | 33 | | SAFETY INJECT SYSTEM TRAIN B OUT OF SERVICE | | | | |

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|---------------------------|-------------------|----------------------------|---|-----------------------------|--------------------------------|------|-------------------------|---------------------------------|
| 449120402 | 18 | | CONTAINMENT ISOLATION TRAIN B OUT OF SERVICE | | | | | |
| 449120403 | 23 | | INTERNAL CNTMT SPRAY SYSTEM TRAIN B OUT OF SERVICE | | | | | |
| 449120404 | 42 | | DIESEL GEN ELECT SYSTEM TRAIN B OUT OF SERVICE | | | | | |
| 449120405 | 10 | | DIESEL GEN MECH SYSTEM TRAIN B OUT OF SERVICE | | | | | |
| 449120501 | 35 | | CHEM VOLUME CONT SYSTEM TRAIN A OUT OF SERVICE | | | | | |
| 449120502 | 34 | | RSDL HEAT REMOVAL SYSTEM TRAIN A OUT OF SERVICE | | | | | |
| 449120503 | 31 | | COMP COOLING SYSTEM TRAIN A OUT OF SERVICE | | | | | |
| 449120504 | 45 | | RAD MONITORING SYSTEM TRAIN A OUT OF SERVICE | | | | | |
| 449120505 | 18 | | HYDROGEN VENT SYSTEM TRAIN A OUT OF SERVICE | | | | | |
| 449120601 | 35 | | CHEM VOLUME CONT SYSTEM TRAIN B OUT OF SERVICE | | | | | |
| 449120602 | 34 | | RSDL HEAT REMOVAL SYSTEM TRAIN B | | | | | |

| PIONEER NUMBER *00* | SYS NO *01* | SEQ OF EVNT RECORD *02* | LIGHT BOX ENGRAVING *03* | INIT CONTACT NO.(S) *04* | INT SYA CABLE NUMBER *05 *06* | FLOW DRAWING *08* | SCHEMATIC DRAWING(S) *09* |
|---------------------------|-------------------|----------------------------|--|-----------------------------|--|-------------------------|---------------------------------|
| 449120603 | 31 | | COMP COOLING SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449120604 | 45 | | RAD MONITORING SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449120605 | 18 | | HYDROGEN VENT SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449120701 | 08 | | FIRE PROTECTION SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449120702 | 38 | | BATTERY CHARGER INVERTER TRAIN A OUT OF SERVICE | | | | |
| 449120703 | 40 | | INSTRUMENT BUS RED CH 1 TRAIN A OUT OF SERVICE | | | | |
| 449120704 | 40 | | INSTRUMENT BUS YELLOW CH 4 TRAIN A OUT OF SERVICE | | | | |
| 449120705 | ESF | | SPARE | | | | |
| 449120801 | 08 | | FIRE PROTECTION SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449120802 | 38 | | BATTERY CHARGER INVERTER TRAIN B OUT OF SERVICE | | | | |
| 449120803 | 40 | | INSTRUMENT BUS WHITE CH 2 TRAIN B OUT OF SERVICE | | | | |

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|---------------------------|-------------------|----------------------------|---|-----------------------------|-------------------|----------------------|-------------------------|---------------------------------|
| 449120804 | 40 | | INSTRUMENT BUS BLUE CH 3 TRAIN B OUT OF SERVICE | | | | | |
| 449120805 | ESF | | SPARE | | | | | |
| 449120901 | ESF | | SPARE | | | | | |
| 449120902 | ESF | | SPARE | | | | | |
| 449120903 | ESF | | SPARE | | | | | |
| 449120904 | 25 | | CONT ROOM A/C SYSTEM TRAIN A OUT OF SERVICE | | | | | |
| 449120905 | 17 | | AUX BLDG VENT SYSTEM TRAIN A OUT OF SERVICE | | | | | |
| 449121001 | ESF | | SPARE | | | | | |
| 449121002 | ESF | | SPARE | | | | | |
| 449121003 | ESF | | SPARE | | | | | |
| 449121004 | 25 | | CONT ROOM A/C SYSTEM TRAIN B OUT OF SERVICE | | | | | |
| 449121005 | 17 | | AUX BLDG VENT SYSTEM TRAIN A OUT OF SERVICE | TRAIN B OUT OF SERVICE | | | | |
| 449121101 | 14 | | AUX BLDG SPEC VENT SYSTEM TRAIN A OUT OF SERVICE | | | | | |
| 449121102 | 56 | | CNTMT VENT ISOLATION TRAIN A OUT OF SERVICE | | | | | |
| 449121103 | 18 | | REACTOR BLDG VENT SYSTEM TRAIN A OUT OF SERVICE | | | | | |

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|---------------------------|-------------------|----------------------------|---|-----------------------------|-------------------------------------|-------------------------|---------------------------------|
| 449121104 | 24 | | SHIELD BLDG VENT SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449121105 | 16 | | TB BUILDING VENT SYSTEM TRAIN A OUT OF SERVICE | | | | |
| 449121201 | 14 | | AUX BLDG SPEC VENT SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449121202 | 56 | | CNTMT VENT ISOLATION TRAIN B OUT OF SERVICE | | | | |
| 449121203 | 18 | | REACTOR BLDG VENT SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449121204 | 24 | | SHIELD BLDG VENT SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 449121205 | 16 | | TB BUILDING VENT SYSTEM TRAIN B OUT OF SERVICE | | | | |
| 4700111 | 11 | | ***** FW HTR 14A/14B LEVEL HIGH | P.16608,16609 | 0 | M207 | |
| 4700112 | 08 | | ***** FIRE PUMP 1A VOLTAGE LOW | 27/1-013 | 0 | 1NC3334 | E1493 |
| 4700113 | 08 | | ***** FIRE PUMP 1A RUNNING | CRL1 | 0 | 1NC2063 | E1493 |
| 4700114 | 08 | | ***** FIRE PUMP 1B VCLTAGE LOW | 27/1-234 | 0 | 1NC3319 | E1494 |