

Technical specification No. 191782

Includes:

1. Technical specification for items
2. Technical specification for equipment qualification

1. TECHNICAL SPECIFICATION FOR ITEMS

Line	NEK Item Number	Part Number	UOM	Quantity	Need by Date	Safety Classification
1	434691	TEC3L05-13 Y	EA	4	30-Jun-27	SR
SWITCH,TEMPERATURE, P/N: 3L05-13 Y (WHITE ROGERS), TYPE: AUTO RESET, CALIBRATED TO ACTUATE AT 250°F-290°F (121°C-143°C), CUT-OUT TEMP./OPEN ON TEMP. RAISE, TEMP. DIFF. 40°F (22°C), CONTACTS: SPST (INCL. RSCC SR 10FT CABLE ASSEMBLY WITH TERMINAL AND FERRULES MOUNTED (RSCC CABLE P/N: P40-3063 + P/N:DURA002024 DISCONNECT TERM.ON ONE SIDE AND BURNDY P/N:YF1410UIL UNINSULATED FERRULE ON OTHER SIDE)), SC:SR MFG: WESTINGHOUSE NUCLEAR SERVICES DIVISION, P.O. BOX 355, 15230 PITTSBURGH, United States Item shall be supplied in accordance with the following TQRs: A00, A07, B00, B01, B04, B06, B07, B08, C00, C01, F00, F02, F40, F50, F51, F521, F57, F59, F90, G00, G01, G02, G03 The following documents and/or records shall be submitted with the above item: G04 - THE CERTIFICATE OF CONFORMANCE G22 - NONCONFORMANCE REPORTS G811 - COMMERCIAL GRADE ITEM DEDICATION (CGDI) PLAN G812 - DEDICATION TEST REPORT G814 DEDICATION TEST REPORT NUMBER GP4 - PRODUCT DATA SHEET X15 - SEISMIC TEST REPORT X120 - EQ EQUIPMENT SPEC.						
2	434692	TEC3L12-350 Y	EA	4	30-Jun-27	SR
SWITCH,TEMPERATURE, P/N: 3L12-350 Y (WHITE ROGERS), TYPE: MANUAL RESET, CALIBRATED TO ACTUATE AT 350°F (117°C), CUT-OUT TEMP./OPEN ON TEMP. RAISE, CONTACTS: SPST (INCL. 2 pcs.RSCC SR 10FT CABLE ASSEMBLY WITH TERMINAL AND FERRULES MOUNTED (RSCC CABLE P/N: P40-3063 + P/N:DURA002024 DISCONNECT TERM.ON ONE SIDE AND BURNDY P/N:YF1410UIL UNINSULATED FERRULE ON OTHER SIDE)), SC:SR MFG: WESTINGHOUSE NUCLEAR SERVICES DIVISION, P.O. BOX 355, 15230 PITTSBURGH, United States Item shall be supplied in accordance with the following TQRs: A00, A07, B00, B01, B04, B06, B07, B08, C00, C01, F00, F02, F40, F50, F51, F521, F57, F59, F90, G00, G01, G02, G03 The following documents and/or records shall be submitted with the above item: G04 - THE CERTIFICATE OF CONFORMANCE G22 - NONCONFORMANCE REPORTS G811 - COMMERCIAL GRADE ITEM DEDICATION (CGDI) PLAN						

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Registration: Krško District Court, entry number: 1000120000; Share Capital: 353.544.826,00 EUR
VAT Identification Number: SI61082597 Tax Number: 61082597 Registration Number: 5034345000
Phone: +386 7 48 02 000; www.nek.si; e-mail: nek@nek.si
SI56 0292 4001 8793 453 (NLB d.d.); SI56 0400 1004 8892 548 (OTP banka d.d.);
SI56 1010 0005 7820 337 (Banka Intesa Sanpaolo d.d.); SI56 3400 0102 2600 457 (Banka Sparkasse d.d.)

	G812 - DEDICATION TEST REPORT G814 DEDICATION TEST REPORT NUMBER GP4 - PRODUCT DATA SHEET X15 - SEISMIC TEST REPORT X120 - EQ EQUIPMENT SPEC.					
3	434693	TEC10-02399 Y	EA	16	30-Jun-27	SR
	SET.MOUNTING, BOLT M4 x 16, LOCKNUT M4, WASHER, MATERIAL 18-8 SS, (USE FOR MOUNTING THERMO-SWITCH 3L05-13 AND 3L12-350 (WHITE ROGERS),SC:SR MFG: WESTINGHOUSE NUCLEAR SERVICES DIVISION, P.O. BOX 355, 15230 PITTSBURGH, United States Item shall be supplied in accordance with the following TQRs: A00, A07, B00, B01, B04, B06, B07, B08, C00, C01, F00, F02, F40, F50, F51, F521, F551, F57, F90, G00, G01, G02, G03 The following documents and/or records shall be submitted with the above item: G04 - THE CERTIFICATE OF CONFORMANCE G22 - NONCONFORMANCE REPORTS G623 - DRAWING G811 - COMMERCIAL GRADE ITEM DEDICATION (CGDI) PLAN G812 - DEDICATION TEST REPORT G814 DEDICATION TEST REPORT NUMBER X15 - SEISMIC TEST REPORT					

TECHNICAL AND QUALITY REQUIREMENTS

IMPORTANT:

The quotation has to include Statement of Compliance with the Technical and Quality Requirements from Purchaser's RFQ including the Bidder's commitment to provide requested documents and/or records. If any of these requirements cannot be fulfilled, please, provide the explanation.

A00 - GENERAL REQUIREMENTS

ALL REQUIRED DOCUMENTS SHALL BE SUPPLIED IN ENGLISH OR ENGLISH/ MULTILINGUAL.

A07 - NEW ITEMS

ALL ITEM(S) PROVIDED ON THIS PURCHASE ORDER SHALL BE SUPPLIED IN THE NEW CONDITION (NOT USED OR REFURBISHED IN ANY WAY).

B00 - QUALITY ASSURANCE REQUIREMENTS

B01 - QUALITY ASSURANCE PROGRAM

ALL SERVICES AND ITEMS, INCLUDING THOSE WHICH HAVE TO COMPLY WITH ASME CODE REQUIREMENTS, SHALL BE SUPPLIED IN ACCORDANCE WITH A QUALITY ASSURANCE PROGRAM THAT COMPLIES WITH 10CFR50 APPENDIX B AND ANSI N45.2-1977 OR ASME NQA-1, AND THAT HAS BEEN PREVIOUSLY EVALUATED AND ACCEPTED BY NEK.

B04 - SUPPLIER QA MANUAL CONTROLLED DISTRIBUTION

IF A CONTROLLED COPY OF THE LATEST REVISION OF THE SUPPLIER'S QUALITY ASSURANCE PROGRAM MANUAL HAS NOT BEEN PREVIOUSLY SENT TO NEK, SUBMIT A COPY OF THIS DOCUMENT TO:

LUKA MIKELIĆ, QUALITY & NUCLEAR OVERSIGHT DIRECTOR
tel.:++386 748 02 429
E-mail:luka.mikelic@nek.si

IF A REVISION TO THE SUPPLIER'S QUALITY ASSURANCE MANUAL IS MADE DURING THE CONDUCT OF WORK ASSOCIATED WITH THIS ORDER, A COPY OF THE REVISION SHALL BE SUBMITTED TO THE ABOVE ADDRESS PRIOR TO IMPLEMENTATION OF THE CHANGE.

B06 - 10CFR21 REPORTING

THIS ORDER IS SUBJECT THE PROVISIONS OF THE TITLE 10 OF THE U.S. CODE OF FEDERAL REGULATIONS PART 21, REPORTING OF DEFECTS AND NONCOMPLIANCE, REPORTING PURSUANT TO 10CFR21 SHALL BE MADE TO:

STANKO MANOJLOVIC , ENGINEERING SUPPORT FOR LONG TERM OPERATION SUPERINTENDENT
tel:++386 748 02 527
E-MAIL: stanko.manojlovic@nek.si

B07 - RIGHTS OF ACCESS

NUCLEAR POWER PLANT KRSKO (NEK)) SHALL HAVE THE RIGHT OF ACCESS TO THE SUPPLIER'S AND ANY SUBTIER SUPPLIER'S FACILITIES AND RECORDS FOR INSPECTION OR AUDIT BY NEK , THEIR DESIGNATED REPRESENTATIVE AND/OR OTHER PARTIES AUTHORIZED BY NEK. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, THE RIGHT TO AUDIT MATERIAL, TEST, INSPECTION SERVICES AND QUALITY RECORDS; MAKE SURVEILLANCE VISITS DURING MANUFACTURING; AND WITNESS TESTS TO THE EXTENT NEK DEEMS NECESSARY TO ASSURE THAT WORK IS BEING PERFORMED IN ACCORDANCE WITH ALL PRODUCT DESIGN AND MANUFACTURING REQUIREMENTS.

NEK WILL MAKE ARRANGMENT FOR ANY SUBTIER AUDIT OR INSPECTION THROUGH SUPPLIER. SUPPLIER WILL HAVE OPTION TO ACCOMPANY NEK DURING ANY SUB-SUPPLIER AUDITS OR INSPECTIONS.

INSPECTIONS OR EXAMINATIONS PERFORMED BY NEK, OR ITS DESIGNATED REPRESENTATIVES, DO NOT RELIEVE THE SUPPLIER OF ITS RESPONSIBILITY TO MEET THE REQUIREMENTS OF THIS PURCHASE ORDER.

B08 - RETENTION OF RECORDS

A RECORD SYSTEM (RETENTION TIME FOR LIFETIME AND NON-PERMANENT RECORDS) SHALL BE ESTABLISHED AND MAINTAINED BY THE SUPPLIER THAT PROVIDES DOCUMENTARY EVIDENCE OF THE QUALITY OF THE ITEMS AND ACTIVITIES AFFECTING QUALITY. THESE QA RECORDS SHALL INCLUDE RESULTS OF REVIEWS, INSPECTIONS, TESTS, AUDITS, MONITORING OF WORK PERFORMANCE AND MATERIAL ANALYSIS. RECORDS SHALL, AS A MINIMUM, IDENTIFY THE INSPECTOR OR DATA RECORDER, DATE INSPECTION WAS PERFORMED, TYPE OF OBSERVATION, PROCEDURES USED, RESULTS, ACCEPTABILITY, AND ACTION TAKEN FOR DEFICIENCIES NOTED. ADDITIONAL RECORDS OF SUPPORTING DATA SHALL ALSO BE MAINTAINED. ALL QUALITY VERIFICATION RECORDS, PROCEDURES AND QUALIFICATIONS SHALL BE IDENTIFIABLE TO THE ITEM OR ACTIVITY INVOLVED. THESE RECORDS SHALL BE RETRIVEABLE AND AVAILABLE FOR EXAMINATION. THE CLASSIFICATION AND RETENTION TIME OF LIFETIME AND NON-PERMANENT RECORDS SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF USNRC REGULATORY GUIDE 1.28, REV. 3-1985. THE SUPPLIER MAY DISPOSE OF NON-PERMANENT RECORDS AFTER THE REQUIRED RETENTION PERIOD. IF THE SUPPLIER GOES OUT OF BUSINESS BEFORE THE END OF THE RETENTION PERIOD OF THESE RECORDS, THE SUPPLIER WILL SEND ONE COPY OF THESE RECORDS TO THE NEK IMPORT DEPARTMENT SUPERINTENDENT.

C00 - NONCONFORMANCE AND DEVIATION**C01 - NO SUBSTITUTIONS**

THE SUPPLIER SHALL NOT SUBSTITUTE OTHER ITEMS FOR THE ITEMS REQUESTED WITHOUT SPECIFIC WRITTEN APPROVAL OF NEK PRIOR TO SHIPMENT. IF THE SUPPLIER IDENTIFIES CHANGES, NONCONFORMANCES, OR SEEKS WAIVERS FROM OTHER REQUIREMENTS OF THIS PURCHASE ORDER, THE SUPPLIER SHALL DESCRIBE SUCH CONDITIONS AND THIS INFORMATION SHALL BE TRANSMITTED, IN WRITING, TO NEK IMPORT DEPARTMENT SUPERINTENDENT.

IF THE REQUESTED INFORMATION IS APPROVED BY NEK, THE SUPPLIER SHALL INCLUDE AN APPROVED COPY OF THE INFORMATION STATEMENT WITH THE ITEMS SHIPPED.

THE SUPPLIER SHALL IDENTIFY ANY CHANGE MADE TO UPGRADE ANY ITEM ON THIS PURCHASE ORDER AS A RESULT OF USNRC CORRESPONDENCE (SUCH AS INFORMATION NOTICES, BULLETINS AND ADVISORY LETTERS). CHANGES AS PART OF THE SUPPLIER'S PRODUCT IMPROVEMENT PROGRAM SHALL ALSO BE IDENTIFIED AND TRANSMITTED IN WRITING TO THE NEK IMPORT DEPARTMENT SUPERINTENDENT FOR APPROVAL.

F00 - SHIPPING, HANDLING, MARKING AND STORAGE INSTRUCTIONS ;**F02 - HANDLING, PACKAGING AND SHIPPING**

HANDLING, PACKAGING AND SHIPPING OF THE ITEM SUPPLIED UNDER THIS PURCHASE ORDER SHALL BE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) N45.2.2-LEVEL B.

F40 - SUPPLIER'S NAME**F50 - ITEM MARKING REQUIREMENTS**

ALL ITEMS ARE TO BE PACKAGED INDIVIDUALLY AND IDENTIFIED WITH THE SPECIFIC PART NUMBER, OR ALL ITEMS OF A GIVEN PART NUMBER TO BE PACKAGED TOGETHER AND IDENTIFIED WITH THE SPECIFIC PART NUMBER AND THE FOLLOWING:

F51 - THE PURCHASE ORDER NUMBER**F521 - PART/ CATALOG NO.****F551 BATCH NO. OR LOT NO.****F57 - MANUFACTURER'S NAME****F59 - ITEM SERIAL NUMBER****F90 - PACKING SLIPS ARE TO BE SHIPPED WITH ORDER****G00 - SUPPLIER DOCUMENTATION REQUIREMENTS**

ALL REQUIRED DOCUMENTS SHALL BE SUPPLIED IN ORIGINAL HARD COPY OR ELECTRONIC FORM DEFINED BY SUPPLIER QA PROGRAM AND ACCEPTED BY NEK.

G01 - DOCUMENT TRACEABILITY

ALL REQUIRED DOCUMENTS SHALL BE TRACEABLE TO THE NEK PURCHASE ORDER. DOCUMENTS SUPPLIED WHICH ARE ASSOCIATED WITH SPECIFIC ITEMS ON THE ORDER, SUCH AS TEST REPORTS, SHALL BE IDENTIFIED IN ORDER TO ESTABLISH TRACEABILITY TO THAT ITEM OR GROUP OF ITEMS.

G02 - MATERIAL AND DOCUMENTATION SHIPPING

MATERIAL AND ALL CERTIFICATIONS OR ACCOMPANYING DOCUMENTATION SUPPLIED UNDER THIS ORDER SHALL BE DIRECTLY SHIPPED FROM THE SUPPLIER/MANUFACTURER TO NEK. THE DISTRIBUTOR SHALL NOT TAKE POSSESSION OF MATERIAL OR DOCUMENTATION.

G03 - DOCUMENTATION DIRECTED ADDRESS

DOCUMENTS SUBMITTED PRIOR TO SHIPMENT OR SUBSEQUENT TO SHIPMENT INCLUDING REVISIONS OF THESE DOCUMENTS, SHALL BE DIRECTED TO THE PURCHASING DEPARTMENT. EVERY PAGE OF EACH DOCUMENT SHALL BE TRACEABLE TO THE NEK'S PURCHASE ORDER AND APPLICABLE ITEM(S) NUMBER.

G04 - THE CERTIFICATE OF CONFORMANCE

THE CERTIFICATE OF CONFORMANCE SHALL SATISFY THE FOLLOWING CRITERIA:

1. IDENTIFY THE PURCHASE ORDER NUMBER, INCLUDING ITEM NUMBERS AND CHANGE ORDER NUMBER APPLICABLE TO THE ITEM BEING CERTIFIED.
2. A PERSON IDENTIFIED IN THE SUPPLIER'S QUALITY ASSURANCE PROGRAM DESCRIPTION AS RESPONSIBLE FOR CERTIFICATION SHALL ATTEST TO THE CERTIFICATE BY SIGNATURE, TITLE AND DATE OF SIGNING.
3. NEK RESERVES THE RIGHT TO DETERMINE THE VALIDITY OF THE CERTIFICATE OF CONFORMANCE BY AN AUDIT OF THE SUPPLIER OR BY AN INSPECTION OR TEST OF THE ITEM(S).

G22 - NONCONFORMANCE REPORTS

THE SUPPLIER SHALL PROVIDE A COPY OF ALL NONCONFORMANCE REPORTS AS REPAIR OR USE-AS-IS DISPOSITION OF MATERIALS DURING THE MANUFACTURING PROCESS TO UTILITIES ONLY IN CASES THAT AFFECT ENVIRONMENTAL QUALIFICATION, INTERCHANGEABILITY, DESIGN OR OPERATING PARAMETERS GENERATED DURING MANUFACTURE OF PROCESSING OF THIS ORDER.

THIS REPORT SHALL INCLUDE TECHNICAL JUSTIFICATION FOR NONCONFORMANCE DISPOSITIONS. ALL DISPOSITIONS WHICH DO NOT RETURN AN ITEM TO THE CONDITIONS STATED IN AN APPROVED DRAWING OR SPECIFICATION SHALL BE APPROVED BY NEK PRIOR TO THE SHIPMENT OF THE AFFECTED ITEM.

G623 - DRAWING

G811 - COMMERCIAL GRADE ITEM DEDICATION (CGDI) PLAN

CGDI PLAN SHALL BE SUBMITTED TO NE KRŠKO FOR REVIEW AND APPROVAL AFTER ISSUED PURCHASE ORDER AND PRIOR TO START OF CGID.

G812 - DEDICATION TEST REPORT

DEDICATION TEST REPORT (TEST DATA SHEET FOR CRITICAL CHARACTERISTICS FROM CGID PLAN APPROVED BY NE KRŠKO) SHALL INCLUDE ACCEPTANCE CRITERIA. DEDICATION TEST REPORT SHALL BE SUPPLIED WITH ITEMS OR SHALL BE SUPPLIED AS PART OF THE FINAL DOCUMENTATION PACKAGE.

G814 DEDICATION TEST REPORT NUMBER

FOR ITEMS SUPPLIED IN ACCORDANCE WITH SUPPLIER COMMERCIAL- GRADE DEDICATION PROGRAM THE COMMERCIAL GRADE ITEM TECHNICAL EVALUATION FORM NUMBER AND REVISION LEVEL SHALL BE LISTED ON THE CERTIFICATE OF CONFORMANCE.

GP4 - PRODUCT DATA SHEET

X15 - SEISMIC TEST REPORT

THE SUPPLIER SHALL PROVIDE A SEISMIC TEST REPORT SHOWING THE ITEM(S) ARE QUALIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF ATTACHED DOCUMENT "TS EQ - WHITE RODGERS". THE QUALIFICATION REPORT NUMBER AND REVISION SHALL BE REFERENCED ON THE CERTIFICATE OF CONFORMANCE.

X120 - EQ EQUIPMENT SPEC.

Following technical and quality requirements shall be met:

Vendor shall certify that the supplied Equipment is in compliance with IEEE Standard 323-1974 or newer version of IEEE 323 Std. and with Purchase Order EQ parameters technical specification requirements (see Section 2. Technical Specification for Equipment Qualification).

2. TECHNICAL SPECIFICATION FOR EQUIPMENT QUALIFICATION

Vendor shall certify that the supplied Equipment is qualified in compliance with IEEE Standard 323-1974 or newer version of IEEE 323 Std. and with EQ parameters technical specification requirements defined in Attachment 1 (EQ detailed specification).

Vendor shall certify that the supplied Equipment is qualified in compliance with IEEE Standard 344-2004 and with seismic FRS technical specification requirements defined in Attachment 2.

Qualification documentation shall define designed qualified life with following aging data applicable to materials with significant aging mechanisms: materials/parts identification and description; aging time; aging temperature; activation energy (eV). Qualification documentation should provide sufficient data enable NEK to calculate qualified life for equipment. Equipment target qualified life is 40 years (at NEK normal parameters provided technical specification in Attachment 1).

If there is any difference (materials, design / construction or performance parameters) between tested equipment and subject supplied equipment, the differences should not degrade original equipment qualification level in any viewpoint to accomplishing its safety function during and subsequent to the harsh environments at the end of qualified life. Accordingly, supporting similarity analysis with references shall be provided and delivered to confirm acceptability of difference.

Installation details (orientation, sealing, electrical and process connection etc.) required to maintain qualified tested configuration shall be specified and supplied with qualification records.

SCOPE OF SERVICE:

Vendor shall perform Equipment Qualification of following equipment:

- Equipment: Thermal cutouts – snap on temperature switch
- Manufacturer: WHITE-RODGERS
- Part Numbers (vendor shall deliver new Equipment from the same batch as qualification test specimens):

First test specimen set (parts numbers) consisted of:

- **3L05-13**
 - Cutout temperature: calibrated to actuate at 250-290°F (121-143°C)
 - Temperature differential: 40°F (22°C)
 - Open on temperature rise
 - Enclosed disc
 - SPST contacts
 - Airstream mounting with flange
 - 1/8" x 1/4" electrical spacings
 - 1/4" nickel plated steel terminals, formed at 90° to the mounting surface
- **WIRE RSCC P/N: P40-3063**
 - Rockbestos wire for internal wiring, 10ft long with quick disconnect terminals female hi-temp (Duralite P/N: DURA002024-10PK or equivalent) on one side, other side ferrule 14AWG uninsulated (Burdny type YF or equivalent)
- **Mounting set** (bolt, nut, washer)

Second test specimen set (parts numbers) consisted of:

- **3L12-350**
 - Cutout temperature: calibrated to actuate at 350°F (177°C)
 - Open on temperature rise
 - Stainless steel enclosed disc
 - SPST contacts
 - Airstream mounting with flange
 - 1/8" x 1/4" electrical spacing
 - 1/4" nickel plated steel terminals, formed at 90° to the mounting surface
 -
- **WIRE RSCC P/N: P40-3063**
 - Rockbestos wire for internal wiring, 10ft long with quick disconnect terminals female hi-temp (Duralite P/N: DURA002024-10PK or equivalent) on one side, other side ferrule 14AWG uninsulated (Burdny type YF or equivalent)
- **Mounting set** (bolt, nut, washer)

Attachment 1 (EQ detailed specification):

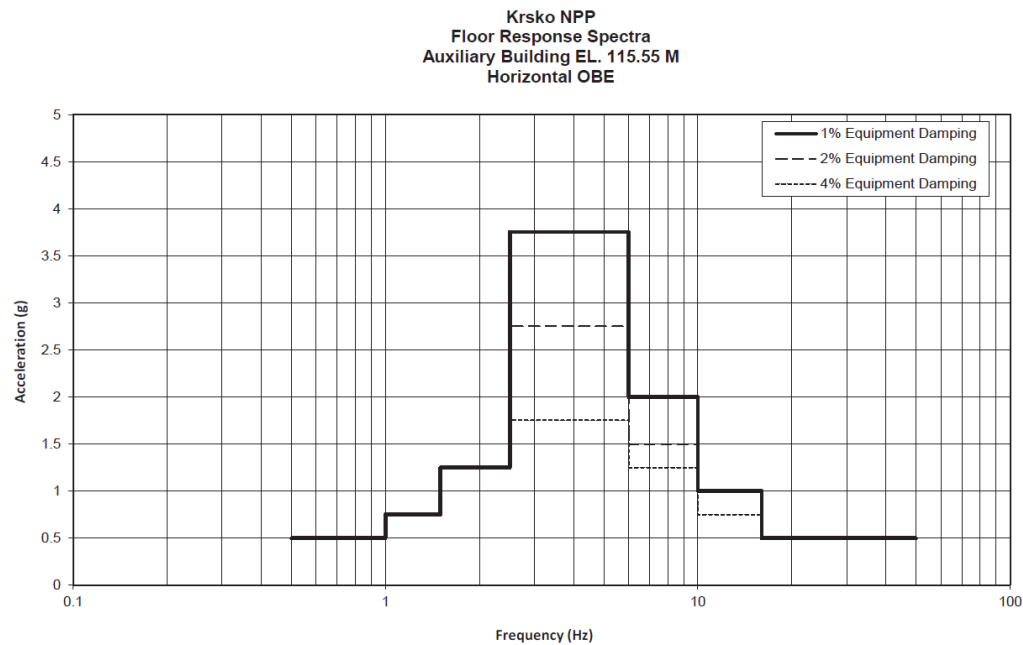
- Equipment Safety Function:
Temperature switch is exposed to normal ambient parameters during normal operation.
It shall actuate (Cut-Out) at temperature defined in specification item 1 (**250-290°F (121-143°C)** for automatic reset switch and **350°F (177°C)** for manual reset switch) and automatically reset / enable manual reset at temperature 22°C below switching set point (or according to manufacturer specifications). Temperature switches protect safety related heater against overheating (in case of low air flow). Temperature switch is installed on metal housing and actuates on high air temperature inside metal housing (air flow is heated by electric heaters).
Temperature switch must be operable during normal operation and during Design Basis Accident (DBA) (Post-Accident Operating Time). There shall be no discontinuity of contacts during seismic event (no contact chattering) and during DBA.
- Equipment shall be qualified to following environmental parameters:

Normal environment:
 - Temperature: 40°C (expected qualified life 40 years)
 - Pressure (kPa): atmospheric pressure 101.3kPa
 - Relative Humidity: max. 60%
 - Radiation: 40 years Total Integrated Dose is 8.64 Gy
Harsh environment during and post DBA:
 - Temperature: 60°C for 30 days (ambient temperature); System where temperature switches are mounted is operating during DBA (filter plenum is heated by electrical heaters). Sensing part of temperature switch is exposed to temperature cycling with temperatures up to Cut-Out temperature defined in Item 1 of Specification.
 - Pressure (kPa): atmospheric pressure 101.3kPa
 - Relative Humidity (%): see Normal environment
 - Radiation: 30 days accident gamma dose is 6.22E+04 Gy
- DBA and Post-Accident Operating Time (PAOT): 30 days (only Temperature and Radiation are Harsh conditions).
- Performance requirements:
 - Normal operation:
 - Contacts not loaded (no power supply voltage on switch contacts)
 - DBA (Design Basis Accident) and Post DBA period of operation:
 - Normally closed (NC) contact loaded with contactor coil R-L current (contactor coil 120V AC, coil inrush current 120VA, coil seal-in current 15VA; coil is R-L load) at sensing temperature below Cut-Out set-point; 120V AC +/- 10%, 50Hz
 - Cycling operation: switching power supply on/off for auxiliary relay coil.
 - Assumed 1 switching operation per day – for 30 days PAOT is therefore assumed 30 cycles (with NC opened contact for app.1 minute).
Manufacturer specifications shall be confirmed within baseline testing (rated voltage, current, thermal characteristics) performed as a minimum as first and final step of qualification.
- IEEE 323 Std. margins:
 - IEEE 323 Std. suggested margins shall be applied to the qualification parameters for equipment qualifications to ensure that the required accident conditions are enveloped during testing.
 -

Attachment 2 (Seismic qualification specification):

- Acceptance criteria for seismic qualification:
- Structural integrity of switch
 - No contact chattering or less than 2ms contact chatter time

SP-S702-044687-000

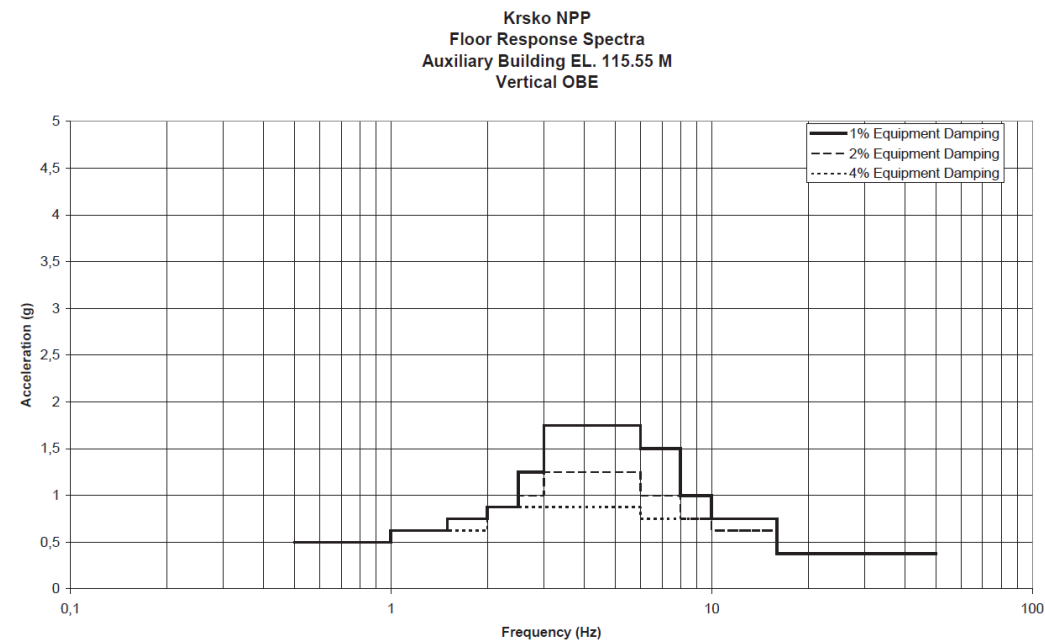


Appendix A

Figure A45

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SP-S702-044687-000

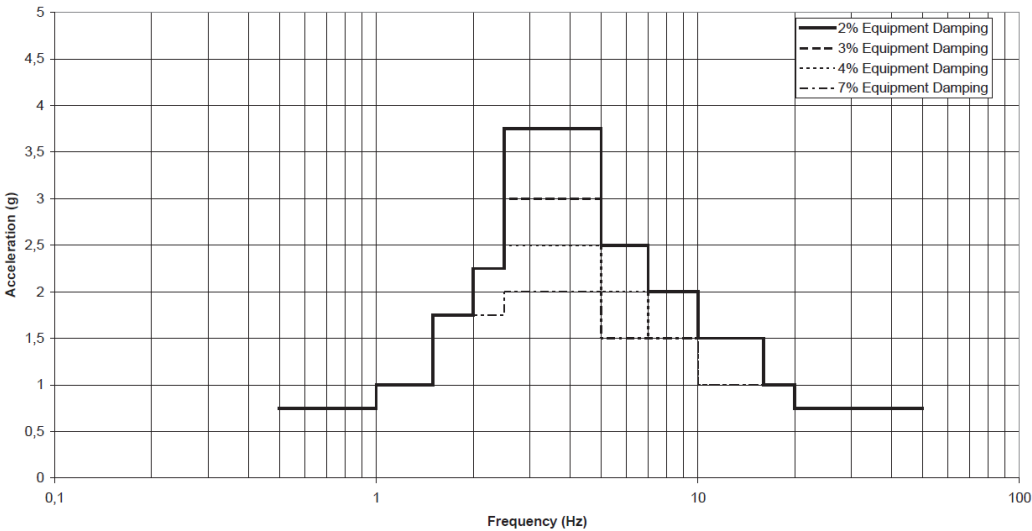


Appendix A

Figure A46

Revision 10
October 2015

Krsko NPP
Floor Response Spectra
Auxiliary Building EL. 115.55 M
Horizontal SSE



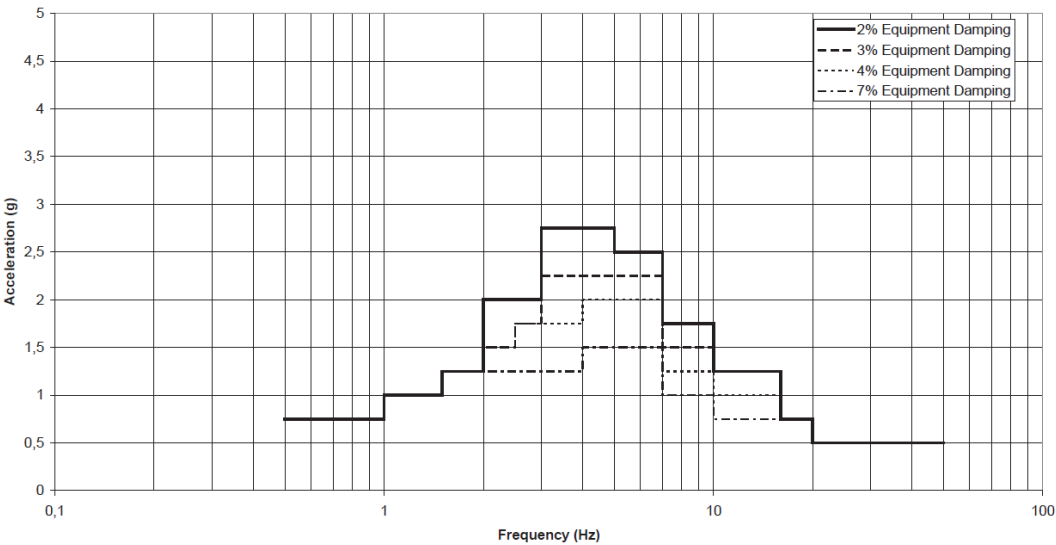
Appendix A

Figure A47

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Krsko NPP
Floor Response Spectra
Auxiliary Building EL. 115.55 M
Vertical SSE



Appendix A

Figure A48

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