

RFO 191921: TECHNICAL SPECIFICATION FOR ITEMS

1. SCOPE

Line	NEK Item Number	Part Number	UOM	Quantity	Need by Date	Safety Classification
1	118235	3196ST 1X1-1/2-8	EA	1	30-Aug-27	SR
PUMP.CENTRIFUGAL,SC:SR,SIZE:1X1.5-8,DESIGN PRESSURE:170 PSIG,DESIGN TEMPERATURE:104 F,IMPELLER SIZE:7-3/8",NO. STAGES:1,CASING MAT.:SA351,CF8M, CAPACITY:90 GPM,CONNECTION:FLANGED,TOTAL HEAD:155 FT,RPM:2900,MODEL:3196ST,ASME CODE CLASS:3,SEISMIC CAT.:I,SPECIFICATION:SP-G529 REV.5,DRAWING NO.:N762530#1&2 REV.1						
MFG: GOULDS PUMPS, INC., 240 FALL STREET, 13148 SENECA FALLS, United States Item shall be supplied in accordance with the following TQRs: A00, A02, A07, B00, B01, B04, B06, B07, F00, F05, F30, F31, F32, F40, F50, F51, F52, F53, F57, F59, F61, F90, G00, G01, G02, G03 The following documents and/or records shall be submitted with the above item: G22 - NONCONFORMANCE REPORTS G35 - MAGNETIC PARTICLE (MT) TEST RECORD G36 - LIQUID PENETRANT (LP) TEST RECORD OR REPORT G48 - HYDRO PRESSURE TEST RECORD G51 - PERFORMANCE/FUNCTIONAL TEST RECORD G55 - CERTIFIED MATERIAL TEST RECORDS-MECHANICAL PROPERTIES G56 - CERTIFIED MATERIAL TEST RECORDS-CHEMICAL COMPOSITION G60 - ASME CODE MANUFACTURER'S DATA REPORT G621 - ASSEMBLY DRAWING G63 - BILL OF MATERIAL G64 - OPERATION & MAINTENANCE MANUAL (2 COPIES) G67 - MANUFACTURING AND QC INSPECTION PLAN G69 - FINAL INSPECTION REPORT (VISUAL, DIMENSIONAL) G83 - DESIGN / STRESS REPORT X002 - CERTIFICATE OF COMPLIANCE WITH TECHNICAL SPECIFICATION X04 - ASME CODE REQUIREMENTS X13 -INSPECTION WITNESS / HOLD POINT NOTIFICATION X19 - ADDITIONAL NOTES						

2. 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.

A02 - ORDER ENTRY REQUIREMENTS

THE SALES OFFICE AND/OR IMPORTER RECEIVING THIS PURCHASE ORDER SHALL TRANSMIT ALL NEK PURCHASE ORDER REQUIREMENTS TO THE EQUIPMENT MANUFACTURER.

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.

F00 - SHIPPING, HANDLING, MARKING AND STORAGE INSTRUCTIONS ;

F05 - HANDLING, PACKAGING AND SHIPPING

THE SELLER SHALL ENSURE THAT THE GOODS ARE PROPERLY PRESERVED, PACKAGED AND PREPARED FOR SHIPMENT IN A MANNER SUITABLE FOR THE INTENDED MODE OF TRANSPORT AND THE EXPECTED ENVIRONMENTAL AND HANDLING CONDITIONS DURING SHIPPING AND STORAGE.

PACKAGING SHALL PROVIDE ADEQUATE PROTECTION FROM THE EFFECTS OF TEMPERATURE EXTREMES, HUMIDITY, CORROSION, TRANSIT SHOCKS AND JARRING.

CAPS AND PLUGS SHALL BE USED TO SEAL THE OPENINGS AND TO PROTECT THREADS AND WELD END PREPARATIONS. STEEL BEAMS/ ANGLES/PIPES LENGTH SHALL BE MAX. 6m.

THE SELLER SHALL REMAIN RESPONSIBLE FOR ENSURING THAT ALL NECESSARY SHIPPING PRECAUTIONS AND HANDLING INSTRUCTIONS ARE COMMUNICATED TO ANY CARRIER OR FORWARDER ENGAGED FOR TRANSPORTATION, REGARDLESS OF WHETHER TRANSPORTATION IS ARRANGED BY THE SELLER OR BY THE BUYER.

F30 - CONTAINER MARKING REQUIREMENTS

SHIPPING CONTAINERS OR CARTONS ARE TO BE CLEARLY MARKED OR TAGGED WITH:

F31 - THE PURCHASE ORDER NUMBER

F32 - SHORT DESCRIPTION

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

F52 - NEK ITEM NUMBER

F53 - ASME CODE STAMP

F57 - MANUFACTURER'S NAME

F59 - ITEM SERIAL NUMBER

F61 - SIZE

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.

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.

G35 - MAGNETIC PARTICLE (MT) TEST RECORD

G36 - LIQUID PENETRANT (LP) TEST RECORD OR REPORT

G48 - HYDRO PRESSURE TEST RECORD

G51 - PERFORMANCE/FUNCTIONAL TEST RECORD

G55 - CERTIFIED MATERIAL TEST RECORDS-MECHANICAL PROPERTIES

G56 - CERTIFIED MATERIAL TEST RECORDS-CHEMICAL COMPOSITION

G60 - ASME CODE MANUFACTURER'S DATA REPORT

G621 - ASSEMBLY DRAWING

G63 - BILL OF MATERIAL

BILL OF MATERIAL SHALL INCLUDE ITEM NUMBER, RECOMMENDED SPARE PART, ITEM DESCRIPTION, UANTITY, ITEM PART NUMBER, MATERIAL SPECIFICATION AND ITEMS DESIGNATION: ASME PRESSURE RETAINING PART / SAFETY-RELATED / NONSAFETY- RELATED.

THE BILL OF MATERIAL SHOULD BE SENT AS A PART OF VENDOR DRAWING OR AS A SEPARATE DOCUMENT WITH THE APPLICABLE DOCUMENT NUMBER, SHEET NO. AND REVISION INCLUDING THE REFERENCE VENDOR DRAWING NUMBER/ SHEET/ REVISION AND NEK PO NUMBER.

G64 - OPERATION & MAINTENANCE MANUAL (2 COPIES)

THE DOCUMENT SHOULD INCLUDE THE FOLLOWING NPP KRŠKO SPECIFIC DATA:

NPP KRŠKO PURCHASE ORDER NUMBER,
NPP KRŠKO TECH.(EQUIPM.)SPEC. NUMBER,
EQUIPMENT ID (TAG)NUMBER.

G67 - MANUFACTURING AND QC INSPECTION PLAN

THE SUPPLIER SHALL PROVIDE THE ITEM MANUFACTURING ACTIVITIES AND QC INSPECTION PLAN TO NPP KRŠKO FOR THE REVIEW AND DEFINITION OF NPP KRŠKO QC WITNESS / HOLD POINTS.

QC INSPECTION PLAN SHALL BE SUBMITTED TO NEK AT LEAST 14 DAYS PRIOR TO START OF MANUFACTURING.

G69 - FINAL INSPECTION REPORT (VISUAL, DIMENSIONAL)

G83 - DESIGN / STRESS REPORT

THE DOCUMENT SHOULD INCLUDE THE FOLLOWING NEK SPECIFIC DATA:

NPP KRŠKO PURCHASE ORDER NUMBER,
NPP KRŠKO TECH.(EQUIPM.)SPEC. NUMBER,
EQUIPMENT ID (TAG)NUMBER.

X002 - CERTIFICATE OF COMPLIANCE WITH TECHNICAL SPECIFICATION

SUPPLIER SHALL CERTIFY THAT THE SUPPLIED PUMP IS IN COMPLIANCE WITH:

- TECHNICAL SPECIFICATION SP-G529-044687-000, REV.5;
- DESIGN SPEC. DSP-G529-044687-000, EXHIBIT A (10-3-75);
- PUMP SPECIFICATION SHEET NO.4- ESSENTIAL SERVICE WATER SCREEN WASH PUMPS.

X04 - ASME CODE REQUIREMENTS

ASME SECTION III ITEMS SHALL MEET: CLASS 3

CODE EDITION:1971 ADDENDA:WINTER 1972

MATERIAL FOR ITEMS GOVERNED BY THE RULES OF ASME SECTION III MAY BE SUPPLIED TO A LATER CODE EDITION OR ADDENDA PROVIDED THAT ALL THE REQUIREMENTS OF THE ORIGINAL CODE EDITION AND ADDENDA OF ASME SECTION II AND III AND NEK SPECIFIED CODE CASE(S) ARE MET AND THE MATERIAL IS CERTIFIED ACCORDINGLY. IN ADDITION, THE SUPPLIER SHALL PROVIDE NEK WITH A STATEMENT OF CODE RECONCILIATION, IF REQUIRED.

X13 -INSPECTION WITNESS / HOLD POINT NOTIFICATION

THE SUPPLIER SHALL PROVIDE ACCESS TO THE SUPPLIER'S PLANT FACILITIES AND RECORDS PERTAINING TO THIS PURCHASE ORDER FOR THE PURPOSE OF PERFORMING INSPECTION ACTIVITES IN ACCORDANCE WITH THE PLAN. NPP KRŠKO REQUIRES 21 DAYS ADVANCE NOTICE THAT WITNESS OR HOLD POINTS HAVE BEEN REACHED.

X19 - ADDITIONAL NOTES

SEISMIC QUALIFICATION DATA- FLOOR RESPONSE SPECTRA CURVES:

- HORIZONTAL OBE- FIGURE A117,
- VERTICAL OBE- FIGURE A118,
- HORIZONTAL SSE- FIGURE A119,
- VERTICAL SSE- FIGURE A120.

CRITICAL DAMPING VALUE IS 2% (OBE-Operating Basis Earthquake) AND 3% (SSE-Safe-Shutdown Earthquake).

COPY OF SEISMIEC ANALYSIS, DESIGN REPORT AND PUMP ASSEMBLY DRAWING SHALL BE SEND FOR REVIEW 8 (EIGHT) WEEKS AFTER RECEIPT OF SIGNED PURCHASE ORDER.