

SIEMENS

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Material - Specification

Doc. No. # KC NEK 496

Replacement Steam Generator

KRSKO

Nuklearna Elektrarna Krško
MASTER DOCUMENT

Date Received: 14. 10. 1998

Log Number: 211179

Siemens KWU NT 13
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**RSG Project
NEK - 5357**

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Designations	Rev.	Application	Semi-finished Product	Material	File - No.
QR E-Mat 1000.0/075	1	Materials for Pressure Retaining Parts and Heat Exchanger Tubes for Replacement Steam Generators			A
MTS-070/35/PG1	1	Primary Head with integrated Nozzles, Cylindrical Ring, Tube Sheet, Secondary Shell Courses, Transition Cone, Secondary Head with integrated Steam Outlet Nozzle; Nozzles ID greater than 50 mm, Trunnions, Forged Plates for Covers for Hand- and Manholes and Base Material for Production Weld Test Coupons	Forgings	SA 508 cl 3a	A 1
MTS-011/35/PG1	0	Covers for Handholes, Inspectionholes and Manholes	Plates	SA 533 Type B class 1	A 2
MTS-070/22/PG1	0	Nozzles with Inner Diameter (ID) smaller than 50 mm	Forged Bars	SA 182 Grade F1	A 3
MTS-107/00/PG1	0	Studs, Nuts and Extension Sleeves for Manholes and Handholes	Bars	SA 540 Grade B 24	A 4
MTS-070/01/PG1	1	Safe Ends and Welding Stubs for Production Weld Test and Mock - Up Proposes	Forging	SA 182 Grade F 347 or SA 182 Grade F 316 LN	A 5
MTS-071/01/PG1	0	Drain Tubes	Bars	SA 182 Grade F 347	A 6
MTS-036/78/PG1	2	Heat Exchanger Tubes	Seamless Tubes	SB 163 Alloy 690 (UNS N06690)	A 7
MTS-070/78/PG1	0	Plugs for Heat Exchanger Tubes	Rods	SB 166 Alloy 690 (UNS N06690)	A 8

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Designations	Rev.	Application	Semi-finished Product	Material	Material	File - No.
QR E-Mat 1000.60/075	2	Materials and Product Forms for Non-Pressure-Retaining Parts for Replacement Steam Generators				B
MTS-011/01/PG2	1	Steam Generator Internals (e.g. flow distribution plate) and blanks for pipe elbows in feedwater delivery pipe (welded from press-forged half sections)	Plates	X 6 CrNiNb 18 10 X 6 CrNiTi 18 10 X 6 CrNiMoTi 17 12 2	SA 240 Type 347 SA 240 Type 321 SA 240 Type 316 Ti	B 1
MTS-011/21/PG2	0	Flanges connecting moisture separator deck plate to shroud	Plates	S355J2G3/St52-3	SA 537 Class 1	B 2
MTS-011/22/PG2	1	Shroud, moisture separator deck plate, flanges connecting moisture separator deck plate to shroud, orificed plate in steam dryer system and support structure	Plates	P 265GH/HII 16 Mo 3/15 Mo 3	SA 515 Grade 55 SA 204 Grade A or B	B 3
MTS-057/01/PG2	0	Feedwater sparger including J - tubes	Seamless Pipes	X 6 CrNiNb 18 10 X 6 CrNiTi 18 10 X 6 CrNiMoTi 17 12 2	SA 312 Type 347 SA 312 Type 321 SA 312 Type 316 Ti	B 4
MTS-35/23/PG2	0	Thermosleeve for feedwater nozzle	Seamless Pipes		SA 335 Grade P1	B 5 1)
MTS-071/29/PG2	0	Bolts for connections between PG2 parts	Bars	24 CrMo 5	SA 193 Grade B 7	B 6
MTS-111/00/PG2	0	Metal Bellows Assemblies	Plates Forgings Tubes	X 6 CrNiNb 18 10 X 6 CrNiTi 18 10 X 6 CrNiMoTi 17 12 2	SA 240 Type 347 SA 240 Type 321 SA 240 Type 316 Ti SA 312 Type 347 SA 312 Type 321 SA 312 Type 316 Ti	B 7
MTS-051/01/PG2	0	Pipe Elbows for Feedwater Pipe Line and Auxiliary Feedwater Piping	Plates pressed and welded	X 6 CrNiNb 18 10 X 6 CrNiTi 18 10 X 6 CrNiMoTi 17 12 2	SA 240 Type 347 SA 240 Type 321 SA 240 Type 316 Ti	B 8

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MTS-011/78/PG2	1	Divider Plate		Plates	SB 168 Alloy 690 UNS N06690	B 9
MTS-011/23/PG2	0	Plates for welding to Pressure Boundary		Plates	SA 204 Grade A or B	B 10
MTS-070/22/PG2	0	Thermosleeve for feedwater nozzle		Forged Bar	SA 182 Grade F1	B 11
QR E-Mat 1000.30/075	1	Scope of Welding Material Tests and Production Weld Tests for Replacement Steam Generators				C
ECN305/97/60		Co - Content				D
ECN9801/075		Metal Bellows Assemblies				D
ECN9802/075		Production Weld Test Coupon for Divider Plate				D

1) not used - see MTS-070/22/PG2