



Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T,H/H	m3	Year	
HEAT EXCHANGER	Neste Oil Oyj	Heat Exchanger	CS								2009	
ELECTRICITY FILTER	Alstom Finland Oyj										2009	
PIPINGS	Anditz Oy	Piping									2009	
PIPINGS	Styrochem Finland Oy	Piping									2009	
PIPINGS	Fingrid Oyj	Piping									2009	
WATER TANK	KPA Unicon Oy	Feed Water Tank	1.4307	0...100	ATM		GOST-R	2000	3000	49,5	2009	
BLOW DOWN TANK	KPA Unicon Oy	Pressure Vessel	CS	115/0	0,7/0 bar	EN13445	GOST-R +RTN	1000	800	1,8	2009	
CONTINUOUS BLOW DOWN TANK	KPA Unicon Oy	Pressure Vessel	CS	184/0	10 bar	EN13445	GOST-R +RTN	300	500	1,1	2009	
FEED WATER TANK	KPA Unicon Oy	Pressure Vessel	CS	120/0	1,0/0(0,7)	EN13445	GOST-R +RTN	3560	2400	33,0	2009	
DEAERATOR	KPA Unicon Oy	Pressure Vessel	1.4307	120/0	1,0/0(0,7)	EN13445	GOST-R +RTN	450	1100	1,9	2009	
CONDENSATE TANK	KPA Unicon Oy	Pressure Vessel	1.4307	0...100	ATM		GOST-R	2300	3000	40,0	2009	
HEAT EXCHANGER	Neste Oil Oyj	Heat Exchanger										
PULPER VESSEL	Cambi AS	Pressure Vessel	1.4404	160	500	EN13445		6503		44,3	2008	
REACTOR VESSEL, 5 PCS	Cambi AS	Pressure Vessel	1.4404	193	1250	EN13445		5112		12,5	2008	
FLASH TANK	Cambi AS	Pressure Vessel	1.4404	160	500			7311		49,5	2008	
PREHEATER	Rautaruukki Oyj	Heat Exchanger	SMO								2008	
STRIPPER	Anditz Oy	Pressure Vessel	1.4362	20...159	5/-1 bar	EN13445	PED 97/23/EC	80000	5200	22000	508,0	2009
TUBE CONDENSER	Metso Power Oy	Heat Exchanger	CS	0...100	8 bar	EN13445	PED 97/23/EC	3500	850	6000	3,4	2008
REPAIR WORKS	Botnia Mill Service Oy										2008	
TITANIUMS	DSB Säurebau GmbH		Ti								2008	
REPAIR WORKS	Destia Oy	Service									2009	
REPAIR WORKS	MB, BMS, M-Real	Service									2009	
REPAIR WORKS	Altia Oyj	Service									2009	
LTO-EXCHANGER 2 MW	Rautaruukki Oyj	Heat Exchanger	CS	0...120	16	EN13445	PED 97/23/EC	7900	1270		2008	
IPA-COLUMN, PIPINGS	Altia Oyj	Piping		120	4 bar						2008	
ACCUMULATOR 330 M3	Hörnätt Energi Ab	Pressure Vessel	CS	0...220	-0.9...22 bar	EN13445	PED 97/23/EC	105000	3600	3300	327	2008
FILTER	Vesi-Pauli Oy	Pressure Vessel		0...40	6,0 bar			5300	2800	25,0	2008	
VESSEL	Anditz Oy	Pressure Vessel	CS								2008	
PIPINGS	Pjelax Energi Oy Ab	Piping									2008	
AMMONIUM VESSEL	Foster Wheeler Energia Oy	Pressure Vessel		-40/+40	1,4 bar	EN13445	PED 97/23/EC	9900	3500	100,0	2009	
SAVUPIIPPU JA VAAKAKANAVA	Jyväskylän Voima Oy	Stack	CS					200000	5200	140000	2009	
VÄKEVÖINTILAITOS	ST1 Biofuels Oy	Piping									2008	
REACTORS, 3 PCS	Cambi AS	Pressure Vessel	1.4432	192	12.5/-1 bar	EN13445			1700	5500	2008	
PULPER	Cambi AS	Pressure Vessel	1.4432	142	5/-1 bar	EN13445			3300	5500	2008	
FLASH TANK	Cambi AS	Pressure Vessel	1.4432	142	12.5/-1 bar	EN13445			3300	5500	2008	

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ELECTRICITY FILTER	Alstom Finland Oyj	Service									2008	
FIRING LIQUOR TANK	Anditz Oy	Pressure Vessel		140/0	2,0/-1 bar	EN13445		10000		1470,0	2008	
HEAT EXCHANGER	Polargas Oy	Heat Exchnager	1.4432								2008	
COALESCER VESSEL	Petresco Process Systems	Pressure Vessel	1.4462	130/-29	9.5/-1 bar	EN13445	NORSOK	3000	8500		2008	
LIQUID KNOCK-OUT DRUM, 2 PCS	Neste Oil Oyj	Pressure Vessel		0...+400	44/-1 bar	EN13445		1500	6400	5,5	2008	
SUCTION KNOCK-OUT DRUM	Neste Oil Oyj	Pressure Vessel		0...+145	43.5/-1 bar	EN13445		1500	4900	5,2	2008	
LIQUID KNOCK-OUT DRUM, 2 PCS	Neste Oil Oyj	Pressure Vessel		0...+145	43.5/-1 bar	EN13445		1500	4850	5,2	2008	
LIQUID KNOCK-OUT DRUM	Neste Oil Oyj	Pressure Vessel		0...+145	43.5/-1 bar	EN13445		1500		5,2	2008	
REPAIR WORKS	Altia Oyj	Service									2008	
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2008	
COOLER	Metso Power Oy	Pressure Vessel		0...+200	5/-1 bar	EN13445				37,3	2008	
AUTOCLAVE	DSB Säurebau GmbH	Pressure Vessel	CS	244/5	35/-1 bar	ASME Div.VIII	64000			150,0		
FLASH VESSEL	DSB Säurebau GmbH	Pressure Vessel	CS	+5...+156	3.5/-1 bar	ASME Div.VIII		5100		148,0	2008	
PREHEATER	DSB Säurebau GmbH	Heat Exchanger	1.4410	156	3.5/-1 bar	ASME Div.VIII		3600		142,0	2008	
GAS OIL COLUMN	L&T Recoil Oy	Pressure Vessel	CS	400/-29	3.4/-1 bar	EN13445	6100	1219	13400		2008	
LUBE OIL PRODUCT FRACTIONATOR	L&T Recoil Oy	Pressure Vessel	CS	400/-29	3.5/-1 bar	EN13445	16000	1980/914	21312		2008	
LIGHT NEUTRAL STRIPPER	L&T Recoil Oy	Pressure Vessel	CS	400/-29	3.4/-1 bar	EN13445	1300	610	4594		2008	
DEFOILING REACTOR	L&T Recoil Oy	Pressure Vessel	CS	121/-29	8.3/-1 bar	EN13445		1829	4877		2008	
DEPOISORING REACTOR	L&T Recoil Oy	Pressure Vessel	CS	400/-29	11.7/-1 bar	EN13445		2742	4267		2008	
THE FIRST REACTOR	L&T Recoil Oy	Pressure Vessel	CS	310/-29	93/-1 bar	EN13445, Overlay welding 309L	20000	1219	7315	10,0	2008	
THE SECOND REACTOR	L&T Recoil Oy	Pressure Vessel	CS	310/-29	93/-1 bar	EN13445, Overlay welding 309L	22000	1219	7315	10,0	2008	
THE THIRD REACTOR	L&T Recoil Oy	Pressure Vessel	CS	371/-29	93/-1 bar	EN13445, Overlay welding 309L	29000	1219	7925	10,0	2008	
DEWATERING DRUM	L&T Recoil Oy	Pressure Vessel	CS	400/-29	3,5/-1 bar	EN13445	2000	10670	3505	4,0	2008	
ASPHAL&LUT SURGE TANK	L&T Recoil Oy	Pressure Vessel	CS	400/-29	3,5/-1 bar	EN13445	1500	1000	1400		2008	
DISTILLATE SURGE TANK	L&T Recoil Oy	Pressure Vessel	CS	400/-29	3,5/-1 bar	EN13445	14000	362	4572	74,0	2008	
FLASH DRUM	L&T Recoil Oy	Pressure Vessel	CS	371/-29	93/-1 bar	EN13445, Overlay welding 309L	14000	1219	2196	3,5	2008	
HP GAS KNOCK-OUT DRUM	L&T Recoil Oy	Pressure Vessel	CS	93/-29	93/-1 bar	EN13445	14000	1676	2438	7,5	2008	
SUCTION KNOCK-OUT DRUM	L&T Recoil Oy	Pressure Vessel	1.4541	93/-29	93/-1 bar	EN13445	-4200	762	1524		2008	
HIGH PRESSURE BLOWDOWN VESSEL	Borealis Polymers	Pressure Vessel	CS	-45...+230	15/-1 bar	EN13445	7200	5000		227,0	2008	
PULPER I	Cambi AS	Pressure Vessel	1.4432	144	5/-1 bar	PD5500	PED	3300	4000		2008	
REACTORS,4 PCS	Cambi AS	Pressure Vessel	1.4432	192	12.5/-1 bar	PD5500	PED	4600	1700	5500	2008	
FLASH TANKS, 2 PCS	Cambi AS	Pressure Vessel	1.4432	144	5/-1 bar	PD5500	PED	3300	4800		2008	
PULPER	Cambi AS	Pressure Vessel	1.4432	144	5/-1 bar	PD5500	PED	3300	4000		2008	
REACTORS, 4 PCS	Cambi AS	Pressure Vessel	1.4432	192	12.5/-1 bar	PD5500	PED	4600	1700	5500	2007	
FEED WATER TANK	Anditz Oy	Feed Water Tank	CS	0...+200	5.0/-1 bar		ASME VIII Div.1	2500	3500		115,0	2007

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COLD BOX	Polargas Oy	Piping										2008
TUULIVOIMALOHKOT	WinWind Oy	Steel structure	CS									2007
VESSELS	Aker Kvaerner Process Sys.	Pressure Vessel	CS/SS									2007
TUBE HEAT EXCHANGER	Metso Power Oy	Heat Exchanger		+120/0	16/0	EN13445	PED 97/23/EC	38500	2950		21,1	2008
HYDROTREATING FEED DRUM	Neste Oil Oyj	Feed Water Tank		0...+240	6/-1bar	EN13445	PED	2200	1600		6,7	2008
HP/LP SEPARATOR	Neste Oil Oyj	Feed Water Tank		0...+200	59/-1 bar	EN13445	PED 97/23/EC	16200	2000		22,4	2008
SOUR WATER DRUM	Neste Oil Oyj	Feed Water Tank		0...+200	8.5/-1 bar	EN13445	PED	1050	1000		1,6	2008
ANTISTATIC AGENT FEED VESSEL	Neste Oil Oyj	Feed Water Tank		-40...+110	2/-1 bar	EN13445	PED 97/23/EC	900	1000		1,4	2008
RICH AMINE FLASH DRUM	Neste Oil Oyj	Feed Water Tank		0...+100	6/-1 bar	EN13445	PED 97/23/EC	15000	1200		1,2	2008
PIPINGS	Närpiön Kaukolämpö Oy	Piping										2007
PATTERIEN VAIHTO	Metsä-Botnia Oy Ab	Service										2007
LIETESÄILIÖ	Metsä-Botnia Oy Ab	Service										2007
KASKISTEN LÄMPÖESK.SANEERAUS	Vapor Oy	Service										2007
TÄRPÄTINEROTIN	Anditz Oy	Pressure Vessel		0...+200	0...7.0 bar	EN13445	PED 97/23/EC	17150	1700		8,0	2007
STRIPPER	Anditz Oy	Pressure Vessel		200/0	5/-1 bar	EN13445	PED 97/23/EC	29500	3400		14,2	2007
METHANOL COLUMN	Anditz Oy	Pressure Vessel		200/0	5/-1 bar	EN13445	PED 97/23/EC	3254	1200		9,9	2007
FEED WATER TANK	Foster Wheeler Oy	Feed Water Tank		0...+200	3.0/-1.0	EN13445	PED 97/23/EC	12500	2800		7,9	2007
PIPINGS	Teuvan kunta	Piping										2007
HÖNKÄPUTKET	Anditz Oy	Steel structure										2007
MÄSKIKOLONNIN UUSINTA	Altia oyj	Service										2007
PIPINGS	Fingrid Oy	Piping										2007
HP-SEPARATOR	Aker Kvaerner	Pressure Vessel	CS/SS	100/-39	140/-1 bar	EN13445	PED	167500	3000		9,05	2007
OTSONIPESURI	Polargas Oy	Pressure Vessel	1.4432	0...80	3/0 bar	EN13445	PED 97/23/EC	530	711		1,6	2007
HEAT EXCHANGER, PIPING	Vantaan Energia Oy	Service										2007
REPAIR WORKS	Altia oyj	Service										2007
HP FLARE DRUM	Kanfa AS	Pressure Vessel	1.4410	93/-50	10.3/0.01	PD5500	PED 97/23/EC	12850	3200		61,7	2007
PIPINGS AND EQUIPMENT ASSEMBLY	VodaPro Oy	Service										2007
REACTOR	Polargas Oy	Pressure Vessel		0...+200	12/-1	EN13445	PED 97/23/EC	3150	1750		7,2	2007
VENT GAS CONDENSER	Metso Power Oy	Heat Exchanger		+20...100	6/-1	EN13445	PED 97/23/EC	20000	1916		9,6	2007
FUEL GAS CONDENSER	Metso Power Oy	Heat Exchanger		+20...120	16/0	EN13445	PED 97/23/EC	12600	1700		8,5	2007
COLUMN	Altia oyj	Pressure Vessel	1.4301	0...+160	4/-1	EN13445	PED 97/23/EC	10000	2100		65,4	2007
EXPANSION TANK	KPA Unicon oy	Pressure Vessel	CS	120	10 bar				1900		5,0	2007
STEAM BLOW BACK VESSEL	SNC-Lavalin	Autoclave	CS	0...+230	32/-1bar	EN13445	PED	1900	1000		1,55	2007
OXYGEN BLOW BACK VESSEL	SNC-Lavalin	Autoclave	1.4404	0...+230	32/-1bar	EN13445	PED	1900	1000		1,55	2007
OXIDATION AUTOCLAVE	DSB Säurebau GmbH	Autoclave	CS	0...+210	29/-1 bar	EN13445	PED 97/23/EC	192000	3880		215,0	2007

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BLACK/WHITE LIQUOR EXCHANGER	Sahala Works	Heat Exchanger	1.4301	+180/+20	15/-1 bar	EN13445	PED 97/23/EC		750		2,3	2006
BLACK LIQUOR COOLER	Sahala Works	Heat Exchanger	1.4301	120/20	10,2/-1 bar	EN13445	PED 97/23/EC		850		1,9	2006
CD2 CIRCULATION HEATER	Sahala Works	Heat Exchanger	1.4301	250/20	16/-1 bar	EN13445	PED 97/23/EC		900/1200		2,4	2006
COLD BLOW COOLER	Sahala Works	Heat Exchanger	1.4301	120/20	10,2/-1 bar	EN13445	PED 97/23/EC		550		0,9	2006
COLD BLOW COOLER	Sahala Works	Heat Exchanger	1.4301	100/20	10/-1 bar	EN13445	PED 97/23/EC		800		0,3	2006
FLASH STEAM CONDENSER	Sahala Works	Heat Exchanger	1.4301	100/20	10/-1 bar	EN13445	PED 97/23/EC		1250		0,6	2006
FEED WATER TANK	Anditz Oy	Pressure Vessel		0...+200	-1/5 bar	EN13445	PED 97/23/EC		4800		225,0	2006
DECK LEG SUPPORT	Technip Offshore Finland	Steel structure										2006
EFFECT E101	Kvaerner Power Oy	Heat Exchanger		150/0	3/-1 bar	EN13445	PED 97/23/EC		2900		97	2006
AIR PURIFICATION VESSEL, 2 PCS	Air Liquide/Polargas	Adsorber	CS	+15...-40	6,5/0 bar	EN13445	PED		3500		102,7	2006
BOOSTER AFTER COOLER	Air Liquide/Polargas	Heat Exchanger	CS	+110/0	11/0 bar	EN13445	PED/97/23/EC		457		0,9	2006
FEED WATER TANK	Foster Wheeler EnergiaOy	Feed Water Tank		0...+250	-1/10 bar	EN13445	PED/97/23/EC		3500		125,5	2006
OFF GAS DRUM	UOP N.V.	Pressure Vessel	CS	+100/-40	6,5/-1				3600		254,6	2006
TUBE CONDENSER	Kvaerner Power Oy	Pressure Vessel		0...+100	-1...10 bar	EN13445	PED/97/23/EC		1750		17,8	2006
REPAIR WORKS	Altia oyj	Service										2006
SÄHKÖSUODATIN	Alstom Power Oy	Service										2006
WHITE LIQUOR FILTRATE VESSEL	Anditz Oy	Pressure Vessel		0...+110	2/-1 bar	EN13444	PED/97/23/EC		2200		14,2	2006
LIME MUD SLURRY VESSEL	Anditz Oy	Pressure Vessel		0...+100	2/-1 bar	EN13445	PED/97/23/EC		3000		17,0	2006
LIME MUD SLURRY VESSEL	Anditz Oy	Pressure Vessel		0...+110	2/-1 bar	EN13445	PED/97/23/EC		3000		21,1	2006
LWH FILTER, FILTRATE VESSEL	Anditz Oy	Pressure Vessel		0...+110	2/-1 bar	EN13445	PED/97/23/EC		3000		28,8	2006
HAIHDUTTIMEN/REAKTORISÄIL. MUUTOS	Metsä-Botnia Oy Ab	Service										2006
PALAMISILMAN ESILÄMMITTIMEN MUUTOS	Rautaruukki Oyj	Service										2005
KANAVAT	Anditz Oy	Steel structure										2005
KAASUNPOISTIN	UPM-Kymmene Oy	Heat Exchanger		0...+200	-1/5 bar	EN13445-3/-4			1600/1400		6,5	2006
CO2-VESSELS, 3 PCS	Oy AGA ab	Pressure Vessel	CS	-40/+40	0/18 bar	EN13445	PED/97/23/EC		6500		150,0	2006
KAASUNPOISTIN	Anditz Oy	Service										2005
HEAT EXCHANGER	Kvaerner Power Oy	Heat Exchanger		0...+200	5/-1 bar	EN13445	PED/97/23/EC		1400		14,3	2006
SUPER CONDENSATOR	Kvaerner Power Oy	Heat Exchanger		-20...+200	5/-1 bar	EN13445	PED/97/23/EC		3100		147,0	2006
FEED WATER TANK	Anditz Oy	Feed Water Tank		0...+20	-1/5 bar	EN13446	PED/97/23/EC		5000			2006
HAIHDUTTIMEN MUUTOS	Altia oyj	Service										2005
LIUOTINSÄILIÖ	Anditz Oy	Pressure Vessel		110/0	+0,25, static	AFS 2005:2	AFS 2005:3				550,0	2005
KAASUNPOISTIMEN SISÄOSAT	Kvaerner Power Oy	Service										2005
MANHOLE AND PROCESS PIPINGS	Anditz Oy	Pressure Vessel										2005
INTERSTAGE STRIPPER	Neste Oil Oyj	Pressure Vessel		0...+400	44/-1 bar	EN13445	PED 97/23/EC		1000/2000		19,7	2006
OFF-GAS DRUM	UOP N.V.	Pressure Vessel	CS	100/-90	6/0 bar				5000		566,5	2005

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FILTER VESSELS , 5 PCS	PALL GmbH-PASS	Pressure Vessel	CS	0...+121	33.8/-1 bar	EN13445	PED 97/23/EC	11000	1800		9,0	2007
FUEL GAS CONDENSER	PALL GmbH-PASS	Pressure Vessel	CS	0...+70	10/-1 bar	EN13445	PED 97/23/EC	2500	1700		6,0	2007
VENT GAS CONDENSER	PALL GmbH-PASS	Pressure Vessel	CS	0...+100	7/0 bar	EN13445	PED 97/23/EC	8500	2800		35,0	2007
REPAIR WORKS	Metsä-Botnia Oy Ab	Service										2005
HYDROCYCLONE M900	Petresco International Ltd	Pressure Vessel	1.4462	-10/+120	25,5 bar	EN13445	TR1053 Ver.3		914		0,1	2006
DESANDER 44C0002C	Petresco International Ltd	Pressure Vessel	1.4462	97/-10	25,5 bar	EN13445	TR1053 Ver.3		1168		1,6	2006
DA-11503 DECYCLOHEXANIZER	Neste Oil Oyj	Pressure Vessel		0...+150	7/-0,5 bar	EN13445	PED 97/23/EC		2900		329,0	2006
INSTALLATION OF EQUIPMENT	Cambi AS	Service										2005
KESÄSEISAKKI	Metsä-Botnia Oy Ab	Service										2005
CONDENSER	Kvaerner Power Oy	Feed Water Tank		0...+120	-1/1 bar	EN13445-3,	PED 97/23/EC		1900/2600		24,0	2005
SEA WATER QUARDAPOD	Petresco International Ltd	Pressure Vessel	1.4462	-10...40	17,5/-1 bar	Cat 1 modul A			1070		2,9	2005
CP2 DESANDER-COARSE FILTES	Petresco International Ltd	Pressure Vessel	1.4462	-10...40	17,5/-1 bar	Cat 1 modul A			1070		2,9	2005
ZD-VALKAISUN PUTKISTOTYÖT	Metsä-Botnia Oy Ab	Piping										2005
HÖYRYPATTERIEN VAIHTO	Metsä-Botnia Oy Ab	Service										2006
PULPER	Cambi AS	Pressure Vessel	1.4432	144/0	3/-1 bar	PD5500 cat	AS1210		3300		36,0	2005
FLASHTANK	Cambi AS	Pressure Vessel	1.4432	144/0	3/-1 bar	PD5500 cat	AS1210		3300		36,0	2005
REACTORS, 3 pcs	Cambi AS	Pressure Vessel	1.4432	192/0	12/-1 bar	PD5500 cat	AS1210		1700		13,8	2005
PULPER	Cambi AS	Pressure Vessel	1.4432	144/5	3/-1 bar	EN13445			3300		52,0	2005
REACTORS, 5 PCS	Cambi AS	Pressure Vessel	1.4432	198/5	14/-1 bar	EN13445			1700		13,8	2005
FLASHTANK	Cambi AS	Pressure Vessel	1.4432	144/5	3/-1 bar	EN13445			3300		52,0	2005
KERÄILYSÄILIÖ	Metsä-Botnia Oy Ab	Service	CS									2005
RIKKIDIOKSIDIN HÖYRYSTIN	Kemijärven Sellu Oy	Pressure Vessel	1.4432	0...+100	7/-1 bar	RS 430			508		0,3	2005
MERIVESILAUHDUTTAMEN KORJAUS	Metsä-Botnia Oy Ab	Service										2005
HÖYRYTUUKKI + PUTKISTO	UPM-Kymmene Oy	Piping										2005
KUUMAVESILÄMMÖNSIIRIN	Metsä-Botnia Oy Ab	Heat Exchanger		0...120	2/-1 bar	EN13445	PED 97/23/EC		650		1,5	2005
VIHERLIPEÄHÖNGÄN LAUHDUTIN	Metsä-Botnia Oy Ab	Heat Exchanger		0/120	5/-1 bar	EN13445	PED 97/23/EC		1100		3,1	2005
GLYCOL CONTACTOR, 2 PCS	Kanfa AS	Pressure Vessel	CS	-46/+153	-1/120 bar	PD5500 cat	DNV,DNV-05-D101				9,3	2005
1st STAGE COMPRESSOR SUCTION SCRUBBER A/B/C	Kanfa AS	Pressure Vessel	CS	0/+100	30 bar	PD5500 cat 2.			1500		6,5	2005
2ST STAGE COMPRESSOR SUCTION SCRUBBER A/B/C	Kanfa AS	Pressure Vessel	CS	0/+175	40/-1 bar	PD5500 cat 2.			1100		3,5	2005
3rd STAGE COMPRESSOR SUCTION SCRUBBER A/B/C	Kanfa AS	Pressure Vessel	CS	175/-46	120/0 bar	PD5500 cat 2.			1050		3,1	2005
PIPING OF VESSELS	Hedron Engineering Ltd	Skid										2005
AKTIIVIHILISUODATIN	Vesi-Pauli Oy	Pressure Vessel		0...+40	6,0 bar				2800		25,0	2005
HUMUSSUODATIN	Vesi-Pauli Oy	Pressure Vessel		50	8 bar				2300		12,1	2005
HAIHDUTTAMON HÖYRYKANAVIEN ASENNUS	Rinheat Oy	Service										2005
AUTOCLAVE	Teknikum Oy	Autoclave		0...200	10/-1 bar				610	42000	11,5	2005

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2005
ULOSPUHALLUSSÄILIÖ	E.ON Filmland Oy	Pressure Vessel		0...+120	0,5 bar			2000		11,5	2005
A- JA K-VAIHTIMEN KORJAUS	Metsä-Rauma Oy Ab	Service									2005
FEED WATER TANK	Anditz Oy	Feed Water Tank		0...200	5/-1 bar	EN134445 PED 97/23/EC		5600		600,0	2005
PIPINGS	Metsä-Botnia Oy Ab	Piping									2005
VALKOLIPEÄN HAPETUSREAKTORI	Polargas / Air Liquide Oy	Pressure Vessel		0/200	12/-1 bar			2000		12,6	2005
KL-VAIHTIMEN UUDELLEENPUTKITUS	Lappeenrannan Lämpövoima	Service									2005
HÖYRYPATTERIEN VAIHTO	Anditz Oy	Service									2004
EVAPORATOR 1 A	Kvaerner Power Oy	Evaporator		0...+200	5/-1 bar	PED/97/23/EN13445		3800/4200		97,5	2005
WASTE HEAT BOILER	Fortum Oil Oy	Heat Exchanger		230/0	23,2 bar	PED/97/23/EN13445		2450		19,0	2005
SULFUR CONDENSER	Fortum Oil Oy	Heat Exchanger		220/0	10/-1 bar	PED/97/23/EN13445		2000		21,7	2005
SULFUR CONDENSER	Fortum Oil Oy	Heat Exchanger		220...0	10/-1 bar	PED/97/23/EN13445		1350		10,4	2005
REPAIR WORKS	Kvaerner Power Oy	Service									2004
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2004
KUORIMON HÖYRYPUTKI	Metsä-Botnia Oy Ab	Piping									2004
PRODUCT STRIPPER REFLUX DRUM	Fortum Oil Oy	Pressure Vessel		0...+343	14,10/-1 bar	PED/97/23/EN13445		2000		21,5	2004
HAJUKAASUPUTKISTOT	Kvaerner Power Oy	Piping									2004
KIERTOVEDISÄILIÖN VUORAUUS	Metsä-Botnia Oy Ab	Service									2004
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2004
HP STEAM DRUM	Fortum Oil Oy	Pressure Vessel		0...+280	58,5 bar	PED/97/23/EN13445		3300		95,0	2005
MHC SECONDSTAGE FEED DRUM	Fortum Oil Oy	Pressure Vessel		0...+400	7,6/-1 bar	PED/97/23/EN13445		2800		58,0	2005
PRESSURE VESSEL	Jämsän Aluelämpö Oy	Pressure Vessel		0...+250	-1...6 bar	PED/97/23/EN13445-3		3500		60,0	2004
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2005
MIXING TANK	Kemira Oyj	Pressure Vessel		0...100	0,5 bar			2200		12,2	2004
MUSTALIPEÄ LÄMMÖNVAIHDIN	Metsä-Botnia Oy Ab	Heat Exchanger	1.4432	150/0	10/-1 bar	PED/97/23/EN13445		650		1,3	2004
JÄLKIKEITTIMEN JÄÄHDYTIN	Metsä-Botnia Oy Ab	Heat Exchanger	1.4432	0...+120	-1/5 bar	PED/97/23/EN13445		350		0,3	2004
PUSKUSÄILIÖN LM-JÄÄHDYTIN	Metsä-Botnia Oy Ab	Heat Exchanger	1.4432	0...+120	10/-1 bar	PED/97/23/EN13445		219,1		0,09	2004
PUSKUHÖNKÄLAUHDUTIN	Metsä-Botnia Oy Ab	Heat Exchanger	1.4432	0...+250	-1/6 bar	PED/97/23/EN13445		1000		1,5	2004
HÖNKÄLÄMMÖNVAIHDIN	Metsä-Botnia Oy Ab	Heat Exchanger	1.4432	0...+250	-1...+5 bar	PED/97/23/EN13445		700		0,4	2004
RICH AMINE FLASH DRUM	Fortum Oil Oy	Pressure Vessel		0...+232	10/-1 bar	PED/97/23/EN13445		2200		34,5	2005
MCH FEED DRUM	Fortum Oil Oy	Pressure Vessel		0...+343	8,75/-1 bar	PED/97/23/EN13445 -3,-4		4000		154,0	2005
CATALYST SLOP OIL DRUM	Fortum Oil Oy	Pressure Vessel		0...+360	8/-1 bar	PED/97/23/EN13445 -3,-4		2900		74,0	2005
COOLING OIL SURGE DRUM	Fortum Oil Oy	Pressure Vessel		0...+343	5,5/-1 bar	PED/97/23/EN13445		2300		63,5	2005
CATALYST INVENTORY HOLDING BINS 3 PCS	Fortum Oil Oy	Pressure Vessel		0...+270	0,7/-0,067 bar	PED/97/23/EN13445		4700		385,0	2005
FLASH VESSEL	Fortum Oil Oy	Pressure Vessel		0...+110	6/-1 bar	PED/97/23/EN13445		5000		283,0	2005

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
FLASH VESSEL	Fortum Oil Oy	Pressure Vessel									2005
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2004
KAPASITEETIN NOSTO	Altia Oyj	Piping									2004
JUOMAVESIPUTKI	M-Real Oyj	Piping									2004
KUIVAAMON LAITTEET	Anditz Ab	Tank									2004
REPAIR WORKS	Kvaerner Power Oy	Service									2004
HÖYRYPATTERIEN VAIHTO	Andritz Oy /Metsä-Botnia Oy	Service									2004
REPAIR WORKS	Metso Paper Oy	Service									2004
WASHER AND PRE-HEATING	Kvaerner Power Oy	Pressure Vessel									2004
PRESSURE VESSEL	Alholmens Kraft Oy Ab	Pressure Vessel		0...+250	5/-0,5 bar	PED/97/23/EN13445		3300		55,8	2004
KAASUNPOISTIN	Outokumpu Stainless Oy	Pressure Vessel		0...200	-1...+6 bar	PED/97/23/EN13445		1800x2500		7,5	2004
TUHKALÄHETIN	PVO-Lämpövoima Oy	Pressure Vessel		0...+120	0...6 bar	PED/97/23/EN13445		1000		0,9	2004
WASHER	Andritz Oy	Pressure Vessel		0...+200	atm.	SFS-standars		3050		65,0	2004
LÄMMINVESILINJAT	Metsä-Botnia Oy Ab	Piping									2004
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2004
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2004
MEASURING CHAMBER 1 AND 2	Kvaerner Power Oy	Feed Water Tank		200	6 bar	PED/97/23/EN13445		168,3		0,08	2004
FEED WATER TANK	Kvaerner Power Oy	Feed Water Tank		0...200	-1/6 bar	PED/97/23/EN13445		5000		385,0	2004
VEDENEROTUSSÄILIÖT, 3 KPL	Metsä-Botnia Oy Ab	Feed Water Tank		0...+100	14/-1 bar	PED/97/23/EN13445		600		0,6	2004
OXYGEN PLANT, INSTALLATIONS	Linde AG	Piping									2004
FW DEAERATOR	Vesi-Pauli Oy	Heat Exchanger		0...+160	4/-1 bar	PED/97/23/EN13445		2000		10,1	2004
GENERAATTORIN KUNNOSTUS	Metsä-Botnia Oy Ab	Service									2004
COLUMN	Kemira Oyj	Feed Water Tank		0...+175	5/-1 bar	PED/97/23/EN13445		1316		28,3	2004
COLUMN	Kemira Oyj	Feed Water Tank		-40...+150	5/-1 bar	PED/97/23/EN13445		1546		47,4	2004
DISPERSION WATER TANK	Vesi-Pauli Oy	Feed Water Tank		0...+40	-1...11 bar	PED/97/23/EN13445		1500		4,0	2004
EFFECT 6	Kvaerner Power Oy	Pressure Vessel		-20/150	3,5/-1 bar	PED/97/23/EN13445		3600/4500		81,0	2004
EFFECT 7	Kvaerner Power Oy	Pressure Vessel		-20/150	0,6/-1 bar	PED/97/23/EN13445		4300/5300		117,0	2004
EFFECT 8	Kvaerner Power Oy	Pressure Vessel		-20/120	0,6/-1 bar	PED/97/23/EN13445		4900/6100		183,0	2004
EFFECT 9	Kvaerner Power Oy	Pressure Vessel		0...+120	0,6/-1 bar	PED/97/23/EN13445		5000/6300		172,0	2004
GLYCOL WATER DRUM	Kemira Oyj	Pressure Vessel		-20/+100	static			6000		206,0	2004
2 VAIHE SUODATIN	Alstom Finland Oy	Service									2003
REPAIR WORKS	Altia Oyj	Service									2003
REPAIR WORKS	Kvaerner Pulping Oy	Service									2003
HEAT EXCHANGER	Anditz Oy	Heat Exchanger	1.4432	0...+250	5/-1 bar	PED/97/23/EN13445		450		0,2	2003

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
FEED WATER TANK	Andritz Oy	Pressure Vessel		0...200	8/-1 bar			3500		115	2003
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2003
CO2-VESSEL	Polargas oy	Pressure Vessel		-40...+40	20 bar	PED	EN13445	3200		100,0	2003
REPAIR WORKS	PVO-Lämpövoima Oy	Service									2003
KONEIKON TERÄSKEHIKKO	HyXo oy	Steel structure									2003
DYNA-SAND PLANT	VodaPro Oy	Piping									2003
JAKOLEVYJEN VAIHTO	Kvaerner Pulping Oy	Service									2003
KÄYTTÖVEDEN LÄMMÖNVAIHDIN	Metsä-Botnia Oy Ab	Heat Exchanger	1.4301	+20...+120	0...16 bar	PED/97/23/E	EN13445	273		0,05	2003
JÄLKILAUHDUTIN	Metsä-Botnia Oy Ab	Heat Exchanger	1.4432	0...+150	3/-1 bar	PED	EN13445	1150		9,0	2003
SÄHKÖSUODATTIMET	Alstom Finland Oy	Service									2003
FEED WATER TANK	Andritz Oy	Feed Water Tank		0...+200	5/-1 bar	PED	EN13445	4500		285,0	2003
REBOILER	Andritz Oy	Feed Water Tank		120	6/-1 bar	PED/97/23/E	EN13445	2000		29,8	2003
FEED WATER PREHEATER 2	Andritz Oy	Feed Water Tank		0...+160	8/-1 bar	PED	EN13445	355,6		0,5	2003
FEED WATER PREHEATER 3	Andritz Oy	Feed Water Tank		0...+160	8/-1 bar	PED	EN13445	406,4		0,5	2003
FEED WATER PREHEATER 4	Andritz Oy	Feed Water Tank		0...+160	8/-1 bar	PED	EN13445	355,6		0,4	2003
DEAERATOR, 2 PCS	Vesi-Pauli Oy	Pressure Vessel		0...+200	06,-/1 bar	SFS standars		2800		19,4	2003
EVAPORATOR 1B	Andritz Oy	Evaporator		20/160	5/-1 bar	PED/97/23/E	EN13445	6000		348,6	2003
EVAPORATOR 1A	Andritz Oy	Evaporator		20/160	5/-1 bar	PED/97/23/E	EN13445	6000		351,5	2003
SKID	Hedron Engineering	Skid									2003
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2003
PREFABRICATION OF HARD TANK	Mäntyluoto Works	Steel structure									2003
SÄILIÖN OSAVALMISTUS	Sulzer Pumps Finland Oy	Pressure Vessel									2002
NÄYTTTEENOTTOLAATIKKO	Kvaerner Pulping Oy	Steel structure									2002
ECONOMAISER	Outokumpu Harjavalta Metals	Pressure Vessel		+20...+321	16 bar	PED/97/23/E	EN13445	273		1,6	2003
SAVUKANAVAT	Wärtsilä NSD	Steel structure	SMO								2002
FEED WATER TANK	Andritz Oy	Feed Water Tank		0...+250	5/-1 bar	PED/97/23/E	AD2000	5000		350,0	2003
DYNASAND-PLANT	VodaPro Oy	Piping									2002
KONETASOT	AvestaPolarit Stainless Oy	Steel structure									2002
ETANOLILASTAUSASEMA	Altia Oyj	Piping									2002
SÄILIÖN KORJAUS	Metsä-Botnia Oy Ab	Service									2002
KATTILAN VAIHTO	Wärtsilä NSD	Service									2002
KUUMAKANAVAN OSA EAF	Alstom Power Oy	Pressure Vessel	CS	191,4	12 bar	PED/97/23/EC		2465		3,7	2002
KUUMAKANAVAN OSA AOD	Alstom Power Oy	Pressure Vessel	CS	191,4	12 bar	PED/97/23/EC		3106		2,7	2002
FEED WATER TANK	Andritz Oy	Pressure Vessel		0...201	8/-1 bar			3097,5797		107,39	2002

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
POHJALEVYJEN HITSAUS	Sulzer Pumps Finland Oy	Service									2002
LIPEÄREAKTORIN KORJAUS	Metsä-Botnia Oy Ab	Service		0...+230	25 bar			3000		87,9	2002
COOLER	Andritz Oy	Pressure Vessel		0...+200	5/-1 bar	PED/97/23/E	EN13445	4700		201,5	2002
PEROXIDE VESSEL	Metsä-Botnia Oy Ab	Pressure Vessel	1.4432	-40...+100	static			4800		100,0	2002
KIINNITYSRENKAAN VALMISTUS	Sulzer Pumps Finland Oy	Steel structure									2002
DROPLET SEPARATOR	Andritz Oy	Pressure Vessel		0...+152	4/-1 bar	PED/97/23/E	ADM2000	500		0,08	2002
PINTASÄILIÖ	Andritz Oy	Pressure Vessel		0...+159	5/-1 bar	PED/97/23/E	EN13445	700		0,5	2002
POLTTOLIPEÄN PAISUNTASÄILIÖ	Andritz oy	Pressure Vessel		0...+159	5/-1 bar	PED/97/23/E	EN13446	2300		18,2	2002
SÄILIÖN KATON KORJAUS	AvestaPolarit Oy	Service									2002
FEED WATER TANK	Kvaerner Pulping Oy	Feed Water Tank		+20...+250	5/-1 bar	PED/97/23/E	EN13445	5500		450,0	2002
ESILÄMMITYSUUNIN KANAVAT JA PUTKISTOT	AvestaPolarit oy	Piping									2002
KIERTO- JA HÖNKÄPUTKET	Metsä-Botnia Oy Ab	Piping									2002
VALKAISUN JÄTEVESIPUTKI	Metsä-Botnia Oy Ab	Piping									2002
HAIHD.KORJAUS, REJEKTISÄIL.UUSIMINEN	Metsä-Botnia Oy Ab	Service									2002
SUODOSLIPEÄSÄILIÖN UUSINTA	Metsä-Botnia Oy Ab	Service									2002
JÄÄÄHDYTYSVESIPUTKISTOT	AvestaPolarit Stainless Oy	Piping									2002
UUNIN KANAVAT JA PUTKISTOT	AvestaPolarit Stainless Oy	Piping									2002
EVAPORATOR EFFECT 2 A	Kvaerner Pulping Oy	Pressure Vessel		+20...+200	5/-1 bar	PED/97/23/E	SFS standard	2900		100,0	2002
EVAPORATOR EFFECT K1 A/B	Kvaerner Pulping Oy	Pressure Vessel		+20...+200	5/-1 bar	PED/97/23/E	SFS standard	5000		380,0	2002
FILTER VESSELS	AvestaPolarit Oy	Pressure Vessel	CS								2002
PRECOAT FILTER+ LAUHTEENPUHD.KONEIKKO	HyXo oy	Skid		+20...+160	18,5 bar	PED/97/23/E	SFS standard	900		1,5	2002
PIPINGS AND STEEL STRUCTURES	AvestaPolarit Oy	Piping									2002
ULOSPUHALLUSSÄILIÖ	Metsä-Botnia Oy Ab	Pressure Vessel		160	5 bar			1600		5,0	2001
EVAPORATOR EFFECT K1 A/B	Kvaerner Pulping Oy	Pressure Vessel		+20...+170	-1/5 bar	PED/97/23/E	SFS standard	5300		421,0	2002
EVAPORATOR EFFECT 1 A/B	Kvaerner Pulping Oy	Pressure Vessel		+20...+170	-1/5 bar	PED/97/23/E	SFS standard	5300		410,0	2002
EVAPORATOR EFFECT 1 C/D	Kvaerner Pulping Oy	Pressure Vessel		+20...+170	-1/5 bar	PED/97/23/E	SFS standard	5300		410,0	2002
EVAPORATOR EFFECT 2	Kvaerner Pulping Oy	Pressure Vessel		+20...+165	-1/3 bar	PED/97/23/E	SFS standard	5900		480,0	2002
EVAPORATOR EFFECT 3	Kvaerner Pulping Oy	Pressure Vessel		+20...+165	3/-1 bar	PED/97/23/E	SFS standard	4000/4700		96,0	2002
EVAPORATOR EFFECT 4	Kvaerner Pulping Oy	Pressure Vessel		+20...+160	3/-1 bar	PED/97/23/E	SFS standard	4200/5000		96,0	2002
EVAPORATOR EFFECT 5	Kvaerner Pulping Oy	Pressure Vessel		+20...+120	1/-1 bar	PED/97/23/E	SFS standard	3900/4800		100,0	2002
EVAPORATOR EFFECT 6	Kvaerner Pulping Oy	Pressure Vessel		+20...+120	1/-1 bar	PED/97/23/E	SFS standard	4300/5300			2002
EVAPORATOR EFFECT 7	Kvaerner Pulping Oy	Pressure Vessel		+20...+120	1/-1 bar	PED/97/23/E	SFS standard	4900/6300			2002
VESSEL	Kvaerner Pulping Oy	Pressure Vessel		-20...+200	6/-1 bar	CEOC		356		0,08	2001
HÖYRYLIERIÖ	Boilertec Oy	Pressure Vessel	CS	+20...+240	32 bar	PED/97/23/E	SFS standard	1600		11,5	2002

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
HÖYRYLIERIÖ	Boilertec Oy	Pressure Vessel	CS	+20...+240	32 bar	PED/97/23/E SFS standard		1500		7,8	2002
VESSEL	Kymenso Oy	Pressure Vessel		0...+250	16/-1 bar			1200		2,5	2001
MIXTANK	Andritz-Ahlstrom Oy	Pressure Vessel		0...+120	atm.			708		0,54	2001
KIRKASTUSSUODATTIMET, 2 KPL	Kutepa Engineering Oy	Pressure Vessel		0...+85	6 bar			1212		7,8	2001
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2001
PIPE- AND EQUIPMENT INSTALLATIONS	Andritz-Ahlstrom Oy	Service									2001
PIKISÄILIÖ	NK Cables Oy	Pressure Vessel		0...+200		SFS 2734		2500		30	2001
PAISUNTASÄILIÖ	NK Cables Oy	Pressure Vessel		0...+200	static			606		0,03	2001
LÄMMITYSPATTERIT I JA II	NK Cables Oy	Pressure Vessel		0...+200	10 bar			63,5/48,3		0,05	2001
ILMAKANAVAT	Andritz-Ahlstrom Oy	Service									2001
WATER TANK	AvestaPolarit Stainless Oy	Tank	1.4301	+20...+100	16 bar	PED/97/23/E SFS standard		700		1,5	2001
WATER TANK	AvestaPolarit Stainless Oy	Tank	1.4301	0...+60	static 0,7 bar			8000		352,0	2001
WATER TANK	AvestaPolarit Stainless Oy	Tank	1.4301	0...+60	static 0,8 bar			8000		400,0	2001
WATER TANK, 2 PCS	AvestaPolarit Stainless Oy	Tank	1.4301	0...+61	static 1,25 bar			10000		950,0	2001
WATER TANK	AvestaPolarit Stainless Oy	Tank	1.4301	0...+62	static 0,54 bar			5730		140,0	2001
WATER TANK	AvestaPolarit Stainless Oy	Tank	1.4301	0...+60	static 0,5 bar			6300		156,0	2001
KAASUNPUHDISTUSLAITTEET	Alstom Finland Oy	Service									2001
LÄMPÖKESKUKSEN PUTKISILLAN PUTKITUKSIA	AvestaPolarit Stainless Oy	Piping									2001
JÄÄHDYTYSJÄRJESTELMÄ	Finnforest Oyj	Piping									2001
APU-2 PALVELUPAUTKISTO	AvestaPolarit Stainless Oy	Piping									2001
PINTASÄILIÖ	Metsä-Botnia Oy Ab	Feed Water Tank		0...+150	3 bar			2600		14,6	2001
REPAIR WORKS	Metsä-Rauma Oy	Service									2001
SÄHKÖSUODIN	Alstom Power Oy	Service									2001
PIPINGS	AvestaPolarit Stainless Oy	Piping									2001
LÄMMÖNTALTEENOTTOKATTILA	Rautaruukki Oyj	Pressure Vessel	CS	0...+120	16 bar			1270		2,7	2001
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2001
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									2001
MAAKAASULÄMMITIN	Kvaerner Pulping Oy	Pressure Vessel		-40...+60	16 bar	PED		406,4		0,15	2001
HÖNKÄHÖYRYLAUHPUTIN	Kvaerner Pulping Oy	Pressure Vessel		+20...+200	6/-1 bar	PED		323,9		0,15	2001
LAAHANVAIHTO	Alstom Power Oy	Service									2001
SÄHKÖSUODIN	Alstom Power Oy	Service									2001
STEEL STRUCTURE	KAS-Rakennus Oy	Steel structure									2001
LÄMPÖKESKUKSEN LAAJENNUS	AvestaPolarit Stainless Oy	Piping									2001
HEATER TREATER, 6 PCS	Hanover Maloney Inc.	Pressure Vessel		-45...+200	8,95 bar	ASME VIII+GOST		3350		170	2001

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
BIO-LÄMPÖKESKUKSEN MUUTOKSET	Metsä-Timber Oy	Service									1999
PUMPPAUSSÄILIÖ	Kvaerner Pulping Oy	Pressure Vessel		0...+250	6 bar			508		0,4	1999
AMMONIAKKIHÖYRYSTIMEN KORJAUS	IVO Tuotantopalvelut Oy	Service									1999
ÖLJYKONEIKKO	Kvaerner Pulping Oy	Skid									1999
TYPPISÄILIÖ	Outokumpu Polarit Oy	Pressure Vessel		+5...+30	hyrd.static			2800		30,0	1999
HOITOTASO+SAMMUTINLAJITTIMEN KUNNOSTUS	Metsä-Botnia Oy Ab	Service									1999
EXCHANGERS, 2 PCS	YIT-Yhtymä	Heat Exchanger		0...+50	10 bar			1600		6,9	1999
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									1999
HÖNKÄPUTKI	Ahlström Machinery Oy	Steel structure		0...+100	static			6500x10008		205,0	1999
PÄÄPUMPUN VAIHTO	Metsä-Timber Oy	Service									1999
ÖLJYKONEIKKO	Tamentec Oy	Skid		200	30 bar						1999
KIERTOPUTKET	YIT-Huber Teollisuus Oy	Piping									1999
DIESEL OIL TANK	Foster Wheeler Energia Oy	Pressure Vessel	CS	-20...+60	static			2700		25,0	1999
GLYCOL CONTACTOR	Kvaerner Process Systems AS	Pressure Vessel		-8/155	50,5 bar	BS 5500 Cat1		1718		25,0	1999
HIILIDIOKSIDISÄILIÖ, 2 KPL	Polargas Oy Ab	Pressure Vessel		-40...+40	22 bar			1500		28,6	1999
HAPPIVAIHEEN MUUTOSPUTKITUS	Metsä-Botnia Oy Ab	Piping									1999
FAVÖRLUFTSTANK	Kvaerner Pulping Oy	Pressure Vessel		30	10 bar			2400		15,0	1999
EGENKONDENSATTANK	Kvaerner Pulping Oy	Pressure Vessel		200	5/-1 bar			1500		6,0	1999
EXP.KÄRL KONT.BOTTENBLÄSNING	Kvaerner Pulping Oy	Pressure Vessel		200	5/-1 bar			1500		3,0	1999
TERÄSRAKENNE	ABB Environmental Systems	Steel structure									1999
RUMPUKUIVURIN HÖYRYLINJAN MUUTOKSET	Primalco Oy	Service									1999
25 m3 CO2-SÄILIÖN KORJAUS	Polargas Oy Ab	Service									1999
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									1998
PIPING INSTALLATIONS	Carat Processteknik Ab	Piping									1999
CHIP CHUTE-TYPE 900	Kvaerner Pulping Ab	Pressure Vessel		0...+155	2,2 bar					3,5	1999
AVGASSIL PRESSURE SHELL, 2 PCS	Kvaerner Pulping Ab	Pressure Vessel		100	static			406,4			1999
TUBEL-VESSEL EFFECT 1 A/B	Kvaerner Pulping Ab	Pressure Vessel		150	5/-1 bar			4900		350,0	1999
TUBEL-VESSEL EFFECT 2	Kvaerner Pulping Ab	Pressure Vessel		150	5/-1 bar			3700		160,0	1999
PUMPING MODULE	Kvaerner Pulping Oy	Pressure Vessel		100	7 bar						1999
KULMAT JA HAARAYHTEET	KWH Tech Oy	Piping									1998
HEAT EXCHANGERS	Kemira Chemicals Oy	Heat Exchanger									1999
SÄILIÖN VUORAUUS	Metsä-Botnia Oy Ab	Service									1998
PISARANEROTTIMEN MUUTOSTYÖ	Primalco Oy	Service									1998
FEED WATER TANK AND DEAERATOR	Foster Wheeler Energia Oy	Feed Water Tank	CS	0...+204	13 bar			2200		60,0	1999

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
PESURI, PIIPPU, SÄILIÖ	Kvaerner Pulping Oy	Tank	1.4432								1999
PRE-HEATER	Kvaerner Paladon	Heat Exchanger	CS	-20/+180	15 bar			1200		4,2	1999
HEATER	Kvaerner Paladon	Heat Exchanger	CS	-20/+180	15 bar			1200		2,5	1999
LAITEAS., PUTKISTO, TASOMUUTOKSET	Nordic Water Products Oy	Service									1998
UTBLÄSNINGTANK	Kvaerner Pulping Oy	Feed Water Tank	CS	0...+165	6 bar			1500			1998
KYLVATTENTANK	Kvaerner Pulping Oy	Feed Water Tank	CS	0...+120	2 bar			1200			1998
KONTIN. UTBLÄSNINGTANK	Kvaerner Pulping Oy	Feed Water Tank	CS	0...+210	16/-1 bar			1200		2,0	1998
MIXING TANKS	Mamec Oy	Tank									1998
PAINEVESISÄILIÖ / TESTILAITTEISTO	Puolustusvoimien tutkimuskeskus	Pressure Vessel		0...+50	25 bar			400		0,08	1998
TESTAUSPAINESÄILIÖ, 2 KPL	Puolustusvoimien tutkimuskeskus	Pressure Vessel		0...+50	20 bar			250x250		0,03	1998
KATALYTTISÄILIÖ JA HOITOTASO	Kemira Chemicals Oy	Pressure Vessel		-20...+40	0,1 bar			1016		0,9	1998
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									1998
AUSBLASEBEHÄLTER	A.Ahlström Machinery	Pressure Vessel		0...+200	5 bar			1500		5,0	1998
BEHÄLTER FOR KONTIN. AUSBLASUNG	A.Ahlström Machinery	Pressure Vessel		0...+350	5 bar			1500		3,0	1998
ENSTPANNUNYSBEHÄLTER	A.Ahlström Machinery	Pressure Vessel		0...+270	17 bar			800		1,0	1998
KONDENSATBEHÄLTER	A.Ahlström Machinery	Pressure Vessel		0...+250	5 bar			1700		5,0	1998
METHANOLBEHÄLTER	A.Ahlström Machinery	Pressure Vessel		0...+152	4/-1 bar			2000		11,5	1998
TERPENTINDEKANTEUR	A.Ahlström Machinery	Pressure Vessel		0...+152	4/-1 bar			1000		2,1	1998
METHANOLKOLONNE	A.Ahlström Machinery	Pressure Vessel		0...+152	4/-1 bar			800		4,0	1998
RESERWASSER BEHÄLTER	A.Ahlström Machinery	Pressure Vessel		0...+50	static			3000		50,0	1998
KONDENSATBEHÄLTER	A.Ahlström Machinery	Pressure Vessel		0...+200	6/-1 bar			3400		55,0	1998
DPEISERWASSERBEHÄLTER	A.Ahlström Machinery	Pressure Vessel		0...+200	6/-1 bar			3800		250,0	1998
BRUNDENKONDENSER	A.Ahlström Machinery	Pressure Vessel		0...+50	static			2200		31,0	1998
ÖLJYPUTKEN SIIRTO	PVO-Lämpövoima Oy	Service									1998
PALJE, MUU MATERIAALI	PVO-Yhtiöt	Service									1998
REAKTORIALLAS, 2 KPL	Outokumpu Polarit Oy	Tank		80	static			5000		50,0	1998
PUMPPAUSSÄILIÖ	Outokumpu Polarit Oy	Tank		80	static			5000		50,0	1998
FEED WATER TANK AND DEAERATOR	Foster Wheeler Energia Oy	Tank		165/0	6/-1 bar			2800		66,0	1998
YLI- JA ALIPAINESUOJA	Kvaerner Pulping Oy	Pressure Vessel		0...+60	static			800		0,7	1998
JÄÄHDYTYSPESURI	Kvaerner Pulping Oy	Pressure Vessel		0...+120	static			1200		5,8	1998
VESILUKKOSÄILIÖ	Kvaerner Pulping Oy	Pressure Vessel		0...+250	6/-1 bar			1000		0,9	1998
TÄRPÄTTIPESURI	Kvaerner Pulping Oy	Pressure Vessel		0...+250	6/-1 bar			406,4		0,5	1998
PISARANEROTIN	Kvaerner Pulping Oy	Pressure Vessel		0...+250	6 bar			600		0,3	1998
VESILUKKOVARO, 2 KPL	Kvaerner Pulping Oy	Pressure Vessel		0...+155	5/-1 bar			400		0,1	1998

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
EXPATION TANK	Carat Processteknik Ab	Tank		-10...+165	static			1300		3,0	1998
HEAT EXCANGER ECONOMIZER	Carat Processteknik Ab	Heat Exchanger			68 bar						1998
HEAT EXCHANGER BOILER	Carat Processteknik Ab	Heat Exchanger			47 bar						1998
HEAT EXCHANGER SUPERHEATER	Carat Processteknik Ab	Heat Exchanger			54 bar						1998
FRESH WATER TANK	Carat Processteknik Ab	Pressure Vessel		+50/-10	static			2700		15,0	1998
PALATIBILITY TANK	Carat Processteknik Ab	Pressure Vessel		-10...+50	9,5/-10 bar			602		0,7	1998
VALKOLIPEÄSÄILIÖN POHJAN UUSINTA	Metsä-Botnia Oy Ab	Service		0...+120	static			13350		1500,0	1998
LIPEÄN PAISUNTA-ASTIA	Kvaerner Pulping Oy	Pressure Vessel		0...+200	4/-1 bar			1400			1998
ESILÄMMITIN, 4 KPL	Kvaerner Pulping Oy	Pressure Vessel		0...+150	4/-1 bar			1000/1300			1998
HAIHDUTIN / PAINERUNKO	Kvaerner Pulping Oy	Pressure Vessel		0...+200	4/-1 bar			3020			1998
PRESSURE VESSEL	Kvaerner Tamturbine	Pressure Vessel		0...+50	20 bar			1000		1,6	1998
HOITOTASO JA VUOTOALLAS	Kemira Chemicals Oy	Steel structure									1998
KANAVA	ASTP-Tekniikka Oy	Steel structure									1998
PUNNITUSSÄILIÖ	Kemira Chemicals Oy	Pressure Vessel		0...+120	6/-1 bar			1400		5,0	1998
HEAT EXCHANGER	PVO-Lämpövoima Oy	Heat Exchanger		0...+260	6/-1 bar			900/1100		1,7	1998
CO2-VESSEL	Polargas Oy Ab	Pressure Vessel		-40...+40	20 bar			2700		60,0	1998
ECONOMIZER, 2 PCS	KPA-Unicon Oy	Heat Exchanger		0...+150	20 bar					0,03	1998
HAPPITEHTAAN PUTKISTOT	Polargas Oy Ab	Piping									1998
WATER TANK	Porin Lämpövoima Oy	Pressure Vessel		0...+50	10/-10 bar			800		0,7	1998
PAISUNTASÄILIÖ	Porin Lämpövoima Oy	Pressure Vessel		120	2 bar			1520		10,0	1998
PROSESSILAITTEET JA ASENNUKSET	Metsäliitto SW Oy	Piping									1998
GLYKOLILÄMMÖNVAIHDIN	Metsä-Botnia Oy Ab	Heat Exchanger		0...+115	16 bar					0,6	1998
LAUHTEENJÄÄHDYTIN	Metsä-Botnia Oy Ab	Heat Exchanger		0...+160	16 bar			450		0,3	1998
PURUSIILO 500 m3	Botnia-Wood Oy Ab	Tank									1998
MINIHUUVA	UPM-Kymmene Oyj	Steel structure									1998
VALA-VESILAITOS	Vesi-Pauli Oy	Piping									1998
PUMPPAUSYKSIKKÖ	Kvaerner Pulping Oy	Skid									1998
PATRUUNASUODATIN	Vesi-Pauli Oy	Pressure Vessel									1998
FEED WATER TANK AND DEAERATOR	YIT-Huber Teollisuus Oy	Pressure Vessel		0...+200	4/-1 bar			3000		84,0	1998
KONEIKKO	Kvaerner Oil & Gas	Skid									1998
DROPLET SEPARATOR, 2 PCS	Ahlström Machinery Oy	Pressure Vessel	CS	0...+250	10/-1 bar			750		0,5	1998
LIKAISEN LAUHTEEN PUMPPAUSSÄILIÖ	Ahlström Machinery Oy	Pressure Vessel	CS	0...+250	10/-1 bar			800		0,6	1998
VESILUKKOSÄILIÖ	Ahlström Machinery Oy	Pressure Vessel	CS	0...+250	10/-1 bar			800		1,1	1998
POHJAPUHALLUSSÄILIÖ	Ahlström Machinery Oy	Pressure Vessel	CS	0...+200	6 bar			1500		5,0	1998

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
STEEL CONSTRUCTIONS FOR VALA	GEC Alstom Energie GmbH	Steel structure									1998
CONTI-PROJ.LAITTE- JA PUTKISTOAS.	Rintekno Oy	Piping									1998
SÄILIÖN JALUSTA	Suomen Turkis Oy	Steel structure									1998
HAPPISÄILIÖ	Polargas Oy Ab	Pressure Vessel									1998
HEAT EXCHANGER	Kemira Chemicals Oy	Heat Exchanger									1998
POLTTOILMAN ESILÄMMITIN	Rautaruukki Oy	Heat Exchanger									1998
REFLUX CONDENSER	Kvaerner Paladon	Pressure Vessel		-16...+149	5 bar	BS5500		273		0,08	1998
RECLAIMER CONDENSER	Kvaerner Paladon	Pressure Vessel		-16...+177	5 bar	BS5500		219,1		0,05	1998
AMINE ABSORBER	Kvaerner Paladon	Pressure Vessel		-16...+149	5 bar	BS5500		406,4/323,9		1,5	1998
AMINE RECLAIMER	Kvaerner Paladon	Pressure Vessel		-16...+177	5/-1 bar	BS5500		772		1,3	1998
AMINE REBOILER	Kvaerner Paladon	Pressure Vessel		-16...+149	5/-1 bar	BS5500		772		1,3	1998
REFLUX DRUM	Kvaerner Paladon	Pressure Vessel		-16...+149	5/-1 bar	BS5500		406,4		0,2	1998
AMINE ABSORBER	Kvaerner Paladon	Pressure Vessel		-16...+93	1 bar	BS5500		609,6		4,0	1998
UUNI-PROJEKTI, PUTKISTOT	Kemira Chemicals Oy	Piping									1998
HEAT EXCHANGER	Metsä-Rauma Oy Ab	Heat Exchanger		0...+110	6 bar			700		1,5	1998
MEESASUOTIMEN NOSTO	Metsä-Botnia Oy Ab	Service									1998
PREFILTER, 2 PCS	Kvaerner Process Systems	Pressure Vessel		0...+55	16 bar			1012		2,0	1998
LIQUID/LIQUID COALESCER	Kvaerner Process Systems	Pressure Vessel		0...+55	16 bar			1012		2,0	1998
VACUUM RECEIVER	Kvaerner Process Systems	Pressure Vessel		-15...+125	3,5/-1 bar			1916		15,8	1998
RICH MEG SURGE DRUM	Kvaerner Process Systems	Pressure Vessel		-10...+60	12 bar			3024		91,0	1998
RICH MEG FLASH DRUM	Kvaerner Process Systems	Pressure Vessel		-10...+125	16/-1 bar			1516		7,8	1998
WASTE DRUM, 3 PCS	Kvaerner Process Systems	Pressure Vessel		145/-15	3,5 bar					1,4	1998
HAIHDUTTAMON KIERTOPUTKET	Ahlström Machinery Oy	Piping									1997
REPAIR WORKS	Metsä-Botnia Oy Ab	Service									1997
HÖ-LINJA	Estrella Oy Ab	Piping									1997
SV-LINJA, YM.	Primalco Oy	Piping									1997
STRIPPERIN HOITOTASO	Kemira Chemicals Oy	Steel structure									1997
HEAVY OIL PUMPING AND HEATING STATION 2PCS	Kvaerner Pulping Oy	Pressure Vessel									1997
HEAVY OIL PUMPING AND HEATING STATION	Kvaerner Pulping Oy	Pressure Vessel									1997
DIESEL OIL AND PUMPING STATION,2PCS	Kvaerner Pulping Oy	Pressure Vessel		60	16 bar						1997
DIESEL OIL AND PUMPING STATION	Kvaerner Pulping Oy	Pressure Vessel		60	16 bar						1997
DIESEL AND PUMPING FOR LINSTORE	Kvaerner Pulping Oy	Pressure Vessel		60	6 bar						1997
ELECTRIC PREHEATER, 2 pcs	Kvaerner Pulping Oy	Pressure Vessel		120	25 bar			406,4		0,5	1997
ELECTRIC PREHEATER	Kvaerner Pulping Oy	Pressure Vessel		121	26 bar			406,4		0,5	1997

Equipment	Client	Product	Mat.	T/°C	Ps	Desing Code	kg	Ø mm	T/T, H/H	m3	Year
OIL/STEAM PREHEATER, 2 pcs	Kvaerner Pulping Oy	Pressure Vessel		120	25 bar			406,4		0,1	1997
OIL/STEAM PREHEATER	Kvaerner Pulping Oy	Pressure Vessel		120	25 bar			406,4		0,1	1997
KATTILAT + EKONOMAISERIT	Värme Ekonomi Närpes Ab	Service									1998
DIESEL OIL PUMPING STATION	Kvaerner Pulping Oy	Pressure Vessel		30...+50	16 bar			114,3			1998
KALSIUMIN DEAKTIVOINTIREAKTORI	Ahlström Machinery Oy	Pressure Vessel		0...+200	5/-1 bar			2800		144	1998
LIPEÄN PAISUNTA-ASTIA	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			2500		16,4	1998
PAISUNTASÄILIÖ, PUOLIVAHVALIPEÄ	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			2000		9,0	1998
LIPEÄN PAISUNTA-ASTIA	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			2600		25,3	1998
LIKAISEN LAUHTTEEN PAISUNTA-ASTIA	Ahlström Machinery Oy	Pressure Vessel		0...+120	1/-1 bar			800		0,7	1998
TYHJIÖKAIVO	Ahlström Machinery Oy	Pressure Vessel		0...+120	1/-1 bar			1000		1,2	1998
SEK.LAUHTTEEN PUMPPAUSASTIA	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			1600		5,1	1998
PRIM.LAUHTTEEN PUMPPAUSASTIA	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			1700		7,1	1998
METANOLIKOLONNI	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			850		6,5	1998
LIKAISLAUHTTEEN PINTA-ASTIA	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			500		0,2	1998
PRIM.LAUHTTEEN PINTA-ASTIA	Ahlström Machinery Oy	Pressure Vessel		0...+250	14/-1 bar			500		0,2	1998
PRIM.LAUHTTEEN PINTA-ASTIA, 2 KPL	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			500		0,2	1998
SEK.LAUHTTEEN PAISUNTA-ASTIA	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			800		0,7	1998
LIKAISLAUHTTEEN PAISUNTA-ASTIA	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			700		0,5	1998
STRIPPAUSKOLONNI	Ahlström Machinery Oy	Pressure Vessel		0...+159	5/-1 bar			2600		77,0	1998
WATER TRAP TANK	Kvaerner Pulping Oy	Pressure Vessel		0...+250	6/-1 bar			1000		0,8	1998
PUMPING TANK, 5 PCS	Kvaerner Pulping Oy	Pressure Vessel		0...+250	6 bar			508		0,3	1998
DROPLET SEPARATOR, 4 PCS	Kvaerner Pulping Oy	Pressure Vessel		0...+250	6 bar			600		0,3	1998
LVHC GAS COLLECTION TANK	Kvaerner Pulping Oy	Pressure Vessel		0...+250	6 bar			1000		1,0	1998
DROPLET SEPARATOR, 3 PCS	Kvaerner Pulping Oy	Pressure Vessel		0...+250	6 bar			600		0,3	1998
PUMPING TANK, 2 PCS	Kvaerner Pulping Oy	Pressure Vessel		0...+250	7 bar			508		0,4	1998
LAITEASENNUKSET	Ahlström Machinery Oy	Service									1997
PUMPING TANK	Metsä-Botnia Oy Ab	Pressure Vessel		0...+160	5(-1) bar			508		0,2	1997
DROPLET SEPARATOR	Metsä-Botnia Oy Ab	Pressure Vessel		0...+160	5(-1) bar			609,6		0,4	1997
VALKAISUREAKTORI	Oy Keskuslaboratorio	Pressure Vessel		120	10/0 bar			323,9/355,6			1997
REPAIR WORKS	Borealis Polymers Oy	Service									1997
ÖLJY / TYPPIAKKU	Sunds Defibrator Loviisa Oy	Pressure Vessel		-10...+80	6 bar			1900		10,0	1997
LÄMPÖLAITOKSEN PUTKISTOT	Akonkosken Saha Oy	piping									1997
REPAIR WORKS	Rauman Monitori Oy	Service									1997
DROPLET SEPARATOR	Metsäliitto SW Oy	Pressure Vessel		0...+160	5(-1) bar			508		0,2	1997

