

supply Material List For Major Overhaul

Equipment : Turbine

NUM	EQUIPMENT	NAME	PARTS NAME	SPECIFICATION			DRAWING NUMBER	PARTS NUMBER	WEIGHT (kg)	RANK
				LENGTH	MATERIAL	SUPPLY (2units)				
7	HP TURBINE	No.1 BLADE	REAMER STUD	φ 57×364	10705BU	2	T2-B5375	03	8.0	A
8			DITTO	φ 70×458	10705BU	2	T2-B5375	04	13.0	A
13			DITTO	2	10705AD	2	T2-B5375	09	3.0	A
14			EXTENSION NUT	2 1/2	10705AD	3	T2-B5375	10	24.0	A
19			HEXAGON SOCKET NUT	φ 2 1/2	10705AD	2	T2-B5375	23	4.0	A
23			SOCKET HEAD BOLT FOR SUPPORT	M20×40	10705BU	8	T2-B5542	05	0.4	A
24			DITTO	M20×40	10705BU	8	T2-B5543	05	0.4	A
29			STUD BOLT	1 3/4×291	10705BU	2	T2-B5376	05	3.0	A
30			DITTO	1 1/2×442	10705BU	2	T2-B5376	06	4.0	A
31			DITTO	1 3/4×296	10705BU	2	T2-B5376	07	3.0	A
32			DITTO	1 1/2×292	10705BU	2	T2-B5376	08	2.0	A
35			Hexagon Socket Nut	1 1/2	10705AD	3	T2-B5376	13	4.0	A
38			HEXAGON SOCKET NUT FOR SUPPORT BLOCK	M20×40	10705BU	8	T2-B5544	06	1.0	A
42			DITTO	φ 50×353	10305DU	2	T2-B5377	04	5.0	A
43			STUD BOLT	1 1/2×221	10305DU	2	T2-B5377	05	2.0	A
49			HEXAGON SOCKET BOLT FOR SUPPORT BLADE	M20×40	10705BU	8	T2-B5545	07	0.4	A
54			STUD BOLT	1 1/2×244	10305MDA	4	T2-B5378	05	4.0	A
59			HEXAGON SOCKET NUT FOR SUPPORT BLOCK	M20×40	10705BU	4	T2-B5545	07	1.0	A
64			STUD BOLT	1 3/4×248	10705BU	2	T2-B5379	05	3.0	A
65			DITTO	1 3/4×361	10705BU	2	T2-B5379	06	4.0	A
66			DITTO	1 3/4×531	10705BU	2	T2-B5379	07	6.0	A
67			DITTO	2×442	10705BU	2	T2-B5379	08	6.0	A
69			DITTO	1 3/4	10705AD	6	T2-B5379	10	6.0	A
70			HEXAGON SOCKET NUT	2	10705AD	2	T2-B5379	11	3.0	A
71			DITTO	2 1/4	10705AD	2	T2-B5379	12	4.0	A
82			CAP BOLT FOR SUPPORT BLOCK	M20×40	10705BU	8	T2-B4265	07	0.4	A
85			STUD BOLT	1 1/4×238	10705BU	2	T2-B5380	05	1.0	A
86			DITTO	1 3/8×244.5	10705BU	2	T2-B5380	06	2.0	A
87			DITTO	1 1/2×282	10705BU	2	T2-B5380	07	2.0	A
89			DITTO	1 1/4	10705AD	2	T2-B5380	09	1.0	A
90			DITTO	1 1/2	10705AD	2	T2-B5380	10	1.0	A
92			DITTO	1 3/8	10705AD	2	T2-B5380	12	1.0	A
103			CAP BOLT FOR SUPPORT	M12×35	10705BU	8	T2-B5547	06	0.4	A

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111			SPECIAL EYE BOLT	M20	10305MDA	4	T2-B5381	16	7.2	A
116			SPECIAL CAP BOLT FOR SUPPORT	M12	10705BU	4	T2-B5548	02	0.2	A
117	HP TURBINE	OUTER CASING	REAMER STUD	φ 82×728	10305DU	2	T1-C4426	01	24.0	A
118			STUD BOLT	3×608	10305DU	2	T1-C4426	02	17.0	A
119			DITTO	2 1/2×581	10305DU	5	T1-C4426	03	66.0	A
120			DITTO	2 1/2×596	10305DU	1	T1-C4426	04	13.0	A
121			DITTO	3×702.5	10705BU	1	T1-C4426	05	20.0	A
122			DITTO	3 1/2×769	10705BU	1	T1-C4426	06	32.0	A
123			DITTO	4×845	M-8B	1	T1-C4426	07	50.0	A
124			REAMER STUD	φ 108×931	M-8B	1	T1-C4426	08	66.0	A
125			STUD BOLT	4×865	M-8B	3	T1-C4426	09	159.0	A
126			DITTO	3 3/4×844	M-8B	1	T1-C4426	10	41.0	A
127			DITTO	3 1/2×824	M-8B	1	T1-C4426	11	37.0	A
128			REAMER STUD	φ 108×901	M-8B	1	T1-C4426	12	63.0	A
129			STUD BOLT	3 3/4×789	M-8B	2	T1-C4426	13	39.0	A
130			DITTO	3×707.5	M-8B	1	T1-C4426	14	23.0	A
131			DITTO	3×687.5	M-8B	1	T1-C4426	15	22.0	A
132			DITTO	3×667.5	M-8B	1	T1-C4426	16	22.0	A
133			STUD BOLT	3×642.5	M-8B	1	T1-C4426	17	20.0	A
134			DITTO	3×622.5	M-8B	1	T1-C4426	18	20.0	A
135			DITTO	2 1/2	M-8B	1	T1-C4426	19	14.0	A
136			DITTO	2 1/2	10705BU	2	T1-C4426	20	27.0	A
137			DITTO	2 1/2	10705BU	1	T1-C4426	21	12.0	A
138			REAMER STUD	φ 70×524	10305DU	2	T1-C4426	22	14.0	A
139			STUD BOLT	3×473	10305DU	1	T1-C4426	23	14.0	A
140			DITTO	2 1/2×451	10305DU	1	T1-C4426	24	10.0	A
141			STUD BOLT	2 1/4×435	10305DU	1	T1-C4426	25	9.0	A
142			DITTO	2 1/4×420	10305DU	1	T1-C4426	26	9.0	A
143			DITTO	2 1/4×400	10305DU	1	T1-C4426	27	8.0	A
144			DITTO	2 1/4×380	10305DU	1	T1-C4426	28	8.0	A
145			DITTO	2 1/4×355	10305DU	1	T1-C4426	29	7.0	A
146			DITTO	2×338	10305DU	7	T1-C4426	30	34.0	A
147			DITTO	2×216	10305DU	7	T1-C4426	31	21.0	A
148			REAMER BOLT	φ 65×414	10305DU	2	T1-C4426	32	16.0	A
150			EXTENSION NUT WITH PLUG	4×175	10705AD	6	T1-C4426	34/57	106.0	A

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151			DITTO	3 3/4x168	10705AD	2	T1-C4426	35/57	30.0	A
152			DITTO	3 1/2x160	10705AD	2	T1-C4426	36/57	25.0	A
153			DITTO	3x143	10705AD	9	T1-C4426	37/58	81.0	A
154			DITTO	2 1/2x130	10705AD	12	T1-C4426	38/58	121.0	A
155			DITTO	2 1/4x124	10705AD	5	T1-C4426	39/58	23.0	A
156			DITTO	2x112	10705AD	14	T1-C4426	40/59	46.0	A
157			EXTENSION NUT	2 1/2x168	S45CN	4	T1-C4426	41	32.0	A
158			HEXAGON SOCKET NUT	2 1/4x108	10705AD	2	T1-C4426	42	4.0	A
159			SPHERICAL WASHER	4	10705BU	6	T1-C4426	43/44	25.0	A
160			DITTO	3 3/4	10705BU	2	T1-C4426	45/46	7.0	A
161			DITTO	7/8x55	10705AD	2	T1-C4426	47/48	0.2	A
162			DITTO	3	10705BU	6	T1-C4426	49/50	10.0	A
163			DITTO	2 1/2	10705BU	4	T1-C4426	51/52	4.0	A
164			FLAT WASHER	3	SACM645	3	T1-C4426	53	2.0	A
165			FLAT WASHER	2 1/2	SACM645	12	T1-C4426	54	5.0	A
166			DITTO	2 1/4	SACM645	6	T1-C4426	55	2.0	A
167			DITTO	2	SACM645	14	T1-C4426	56	3.0	A
175			REAMER STUD	φ 22x170	10305DU	2	T0-W3045	15	0.5	A
176			STUD BOLT	3/4x100	10305DU	2	T0-W3045	16	0.2	A
178			HEXAGON SOCKET NUT	3/4x48	10705AD	4	T0-W3045	18	0.4	A
184			DOWEL STUD	φ 22x6x170	10305DU	2	T0-W3046	16	0.5	A
185			STUD BOLT	φ 22x6x170	10305DU	2	T0-W3046	17	0.4	A
186			HEXAGON SOCKET NUT	φ 22x6x170	10305DU	4	T0-W3046	18	0.2	A
190	HP TURBINE	OUTER GLAND (GOV END)	HEXAGON SOCKET BOLT	M22x80	10305DU	2	T0-W3045	24	0.3	A
191			DITTO	M20x75		8	T0-W3045	25	0.8	A
200			GASKET			2	T0-W3045	21/22	1.0	A
201			CAP BOLT	M24x80	10705BU	24	T0-W3045	23	4.8	A
208			GASKET			2	T0-W3046	22/23	1.0	A
209			CAP BOLT	M24x80	10705BU	24	T0-W3046	24	4.8	A
210			HEXAGON SOCKET BOLT	M22x80	10705BU	2	T0-W3046	25	0.3	A
211			DITTO	M20x75	10705BU	8	T0-W3046	26	0.8	A
215	HP TURBINE	TURBINE ROTOR	FIELD BALANCING WEIGHT	1 1/2		20	-	-	1	A
219	HP TURBINE	MAIN STEAM	BOLT	-6UNF-2R		12	T0-S3510	01	41.0	A
220			NUT WITH PLUG	2	10705AD	24	T0-S3510	02/07	40.0	A

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223		GASKET		φ 235	ASBESTOS	4	T0-S3510	06	0.1	A
227		FIELD BALANCING WEIGHT		1 3/4 X 5UNC-2B 1 1/2 X 6UNC-2B		10/10	-	-	3.0	A
231	LP TURBINE	LP BLADE RING	REAMER STUD	φ 28 X 256	10305MDA	4	T2-B5382	05	2.0	A
232			DITTO	φ 44 X 527	10305MDA	4	T2-B5382	06	12.0	A
233		STUD BOLT		1 1/2 X 236	10305MDA	4	T2-B5382	07	4.0	A
234		DITTO		1 1/2 X 291	10305MDA	4	T2-B5382	08	5.0	A
235		NUT		1		4	T2-B5382	09	1.0	A
236		DITTO		1 1/2		12	T2-B5382	10	8.0	A
261		JACK BOLT		M24 X 300 X 150	S45C	8	T2-F4006	26	4.0	A
287		PACKING		TOMBO #1100		8	T2-F4045	18	0.1	A
289		PACKING		TOMBO #1100		4	T2-F4045	24	0.1	A
290		DITTO		10K-100		2	T2-F4045	31	0.1	A
291		O-RING		G30		6	T2-F4045	52	0.1	A
296	LP TURBINE	LP TURBINE	SOCKET HEAD BOLT	M24 X 340	10305MDA	4	T0-W3047	01	2.5	A
297		DITTO		M24 X 195	10305MDA	4	T0-W3047	02	1.6	A
301		DITTO		M24 X 65	10305MDA	34	T0-W3047	06	6.8	A
307		GASKET				4	T0-W3047	20	1.4	A
308		DITTO				4	T0-W3047	21	1.4	A
318		GASKET		t=1.6	ASBESTOS	4	T0-S3513	12	0.1	A
319	LP TURBINE	No.2 DOMMY		t=1.6	ASBESTOS	2	T0-S3513	13/14	2.3	A
322	PEDESTAL COMPONENT	HP PEDESTAL		t=0.8	TOMBO #1100	2/2	T1-D4473	13/14	1.4	A
325		GASKET		t=1.0	TOMBO #1100	2	30-52102	02	1.4	A
326		O RING		1A-G105		2	T2-D0014	03	0.1	A
328	PEDESTAL COMPONENT	No.1 BEARING	PAD ASS'Y	WL2		8	T1-D3061	18	90.0	A
336		OIL SEAL RING			BC3	2	T1-D3762	28	0.8	A
337		DITTO			BC3	2	T1-D3762	29	0.8	A
338		DITTO			BC3	2	T1-D3762	30	1.3	A
339		DITTO			BC3	2	T1-D3762	31	1.3	A
341		GASKET		φ 470 X 410 X		2	T1-D3762	57	2.2	A
343	PEDESTAL COMPONENT	THRUST BEARING	ADJUST LINER		SS41	2	T1-T3073	23	1.0	A

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344			OIL SEAL RING			2	T1-T3073	22/24/25	1.0	A
345			DITTO	M12X100	SS41	2	T1-T3073	22/26/27	1.0	A
349			THRUST PAD SUB ASS'Y			12	T1-T3073	13/14/15	49.0	A
353	PEDESTAL COMPONENT	No.2 BEARING	BEARING PAD			4	T1-D4429	02/03	119.0	A
362	PEDESTAL COMPONENT	No.3, No.4 BEARING	No.3 & No.4 BEARING ASS'Y SET			4	T1-D4414	01	1,500.0	A
363			LOCKING WIRE	φ 2.33 X 5m	18%Cr-	2	T1-D4414	19	20.0	A
365	PEDESTAL COMPONENT	TURNING GEAR DEVICE	OIL SEAL RING			2	T1-K3242	23	1.0	A
366			OIL SEAL		RUBBER	2	T1-K3242	95	1.0	A
369	MAIN VALVES & CONTROL OIL SYSTEM	MAIN STOP VALVE	VALVE SPINDLE SUB ASS'Y			1	T1-R3579	09/05/10 /19/11/1 8/12/13/ 14/59	10.1	A
370			VALVE SUB-ASS'Y			1	T1-R3580	17/06/08	38.5	A
371			SPRING GUIDE			4	T1-R3580	23/20	25.6	A
372			PIN		10705BU	4	T1-R3580	24	0.2	A
373			STUD BOLT	2 1/2	M8B	8	T1-R3580	61	42.8	A
374			NUT WITH PLUG	M30	S35C	8	T1-R3580	62/65	25.2	A
377			STUD BOLT	1"	M8B	8	T1-R3580	66	2.8	A
378			NUT WITH PLUG	1"	10705AD	8	T1-R3580	67/70	2.4	A
379	MAIN VALVES & CONTROL OIL SYSTEM	GOVERNING VALVE	VALVE SUB ASS'Y SET			2	T1-R3581	31/48/71 /32	29.4	A
387			TAPER PIN	φ 8	10705BU	8	T1-R3581	30	0.4	A
388	MAIN VALVES & CONTROL OIL SYSTEM	INTERCEPT VALVE	VALVE SUB ASS'Y SET			1	T1-M3317	04/05/07 /62/11/0 8/09/60/ 61/10/06	404.0	A
394			FLAT WASHER			2	T1-M3317	21	1.0	A
395			SHIM LINER		SPECIAL WOUND	4	T1-M3317	20	2.3	A
397			STEM SUB-ASSEMBLY		10705BU	2	T2-M3520	09/10/11	32.2	A
398			SHOULDER RING		10705BU	4	T2-M3520	14	0.9	A
405	MAIN VALVES & CONTROL OIL SYSTEM	TURBINE PROTECTIVE DEVICE	DIAPHRAGMS		122-NM	4	T1-G3995	17	0.1	A
406			DITTO		RUBBER	2	T1-G3995	18	0.1	A
407			SOLENOID			2	T1-G3991	75	1	A

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409			SEAL		RUBBER	2	T1-G3991	69	1	A
410	MAIN VALVES & CONTROL OIL SYSTEM	CONTROL BLOCK ASSEMBLY	GASKET	φ 44 X φ 34 X t1	CuP ₂ H	2	T1-G4058	07	0.1	A
412			DITTO		CuP ₂ H	2	T1-G4058	24	0.1	A
414			BALL BEARING		EE-3	2	T1-G3424	42	1.4	A
415			CUP VALVE	φ 24.5	HI CARBONE Cr	2	T1-G3424	43	1	A
420	MAIN VALVES & CONTROL OIL SYSTEM	LOAD LIMITER	CUP VALVE ASS'Y SET			2	T1-G3426	39/40/44/35/36/42/	10	A
423			BALL BEARING			2	T1-G3426	41	1	A
425	MAIN VALVES & CONTROL OIL SYSTEM	TURBINE VALVE CONTROLLER	CHECK VALVE		SCM435	2	T1-G3464	54	1	A
428			DITTO		CuP ₂	4	T1-G3464	56	0.1	A
429	MAIN VALVES & CONTROL OIL SYSTEM	EMERGENCY TRIP DEVICE	CAP VALVE		HIGH CARBON Cr STEEL	2	T1-G3461	15	1	A
430			O RING	P20	OIL PROOF	2	T1-G3461	30	1	A
431			ORIFICE		S35CH	2	T1-G3461	59	1	A
432			DITTO		S35CH	2	T1-G3461	60	1	A
433	MAIN VALVES & CONTROL OIL SYSTEM	THROTTLE PRESSURE REGULATOR	CU, PACKING	t=0.8	CuPI ₂ H	2	T0-J3001	41	0.1	A
434			DITTO	t=1.6	CuPH ₂ H	2	T0-J3001	42	0.1	A
435			COTTON PACKING	φ 6 X 180		2	T0-J3001	35	0.1	A
436	MAIN VALVES & CONTROL OIL SYSTEM	MAIN STOP VALVE SERVO MOTOR	V PACKING		TEFLON	6	T1-G4135	54	0.1	A
439			BUSHING		BC3	4	T1-G4135	49	2.1	A
440			DITTO		BC35	4	T1-G4135	42	2.9	A
444			GASKET		FIBER	2	T1-G4135	18	0.1	A
447			BUSHING		BC3	4	T1-G4015	37	4.6	A
448			DITTO		BC3	4	T1-G4015	38	6.2	A
458			GASKET		FIBER	2	T1-G4010	11	0.1	A
459			BUSHING		BC5C	4	T1-G4010	42	2.9	A

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460			DITTO		BC5C	4	T1-G4010	49	2.1	A
474			FILTER ELEMENT ASS'Y			2	30-42354	06	30	A
475			SPECIAL PACKING		RUBBER	2	T1-N4177	04	1.2	A
478	LUB. OIL SYSTEM	OIL COOLER	PACKING	V-1500 t3		4	33-27142	19a	1.1	A
479			DITTO	V-1500 t3		4	33-27142	19b	1.1	A
480			O RING	V-640-NBR		8	33-27142	19c	0.2	A
481			PACKING RING		BC-2	2	33-27142	29	3.3	A
482	LUB. OIL SYSTEM	MULTIPLE ORIFICE	PACKING	φ 47.5 x φ 40 x 0.8t	CuP ₂ -H	4	T1-U3689	10	0.1	A
483			DITTO		TEFLON	4	T1-U3689	16	0.1	A
484			DITTO	PF3/4	C1100	6	T1-U3689	21	0.1	A
485			SOLENOID VALVE			4	T1-U3689	24	7	A
486	HP. HEATER	GASKET DIAPHRAGM	GASKET	3t x 480 d tombco#1100		8				A
487			GASKET			16				A
516			SLEEVE NUT		SUS403Q	8		54-1, 2		A
517			BALANCE SLEEVE(COUPILING SIDE)		SCS2	4		56-1		A
519			JOURNAL OIL SEAL		SUS403Q	8		65-2		A
520			JOURNAL OIL SEAL		SUS403Q	4		65-1		A
522			THRUST BRG OIL SEAL		BC6	4		932-1		A
523			OIL SEAL (UPPER, LOWER)		B C 6	12		943-1		A
567			GASKET		SUS304	6		972-2		A
568			GASKET		SUS304	6		974		A
569			GASKET		MONEL#400	6		975		A
570			O RING G-80		NBR	18		970-2		A
571			O RING OV-WG40		VITON	12		970-3		A
572			O RING OS-WG39		EPR	12		970-4		A
573			O RING OS-WG22		EPR	12		970-5		A
574			O RING OS-WG22		VITON	12		970-6		A
575			O RING		EPR	6		970-9		A
576			BACK UP RING		PIFE	6		970-10		A
577			O RING G-130		NBR	6		970-11		A
578			BACK UP RING G-210		PIFE	6		970-12		A
579			O RING G-210		EPR	6		970-13		A
581	B.F.P. BP		BALL BEARING		#5311	6		18-1,		A
582			BALL BEARING		#6212	6		18-2,		A
583			GLAND PACKING		METALIC ASBEST	6		67		A

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supply Material List For Major Overhaul

Equipment : Turbine

NUM	EQUIPMENT	NAME	PARTS NAME	SPECIFICATION			DRAWING NUMBER	PARTS NUMBER	WEIGHT (kg)	RANK
				LENGTH	MATERIAL	SUPPLY (2units)				
584			WASHER	M55	SPCC	6	944		A	
585			O RING G-50		90D RUBBER	6	970-1		A	
586			O RING G-240		NBR	6	970-2		A	
587			O RING G-210		NBR	6	970-3		A	
588			O RING G-160		NBR	12	970-4		A	
589			O RING G-115		NBR	6	970-5		A	
590			O RING G-140		NBR	6	970-6		A	
591			GASKET		SUS304	6	972		A	
592			IMPELLER WASHER		SUS304	6	30-B		A	

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メジャーオーバーホール用供給部品表(制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
9	制御弁 / CONTROL VALVE	電磁弁 / SOLENOID VALVE	34-EV-149 POTABLE WATER TANK LCV ON-OFF SOL. VALVE	1 pc
11	制御弁 / CONTROL VALVE	電磁弁 / SOLENOID VALVE	03/04-EV-150 CONDENSATE TANK LEVEL C.V SOL. VALVE	2 pcs
12	制御弁 / CONTROL VALVE	電磁弁 / SOLENOID VALVE	03/04-EV-202 FUEL OIL SHUT OFF VALVE SOLENOID VALVE	2 pcs
14	制御弁 / CONTROL VALVE	電磁弁 / SOLENOID VALVE	03/04-EV-236 GAS OIL SHUT OFF VALVE SOLENOID VALVE	2 pcs
20	ダンパー / DAMPER	電磁弁 / SOLENOID VALVE	03/04-EV-292B B-AH INLET GAS DAMPER DRIVE SOL. VALVE	2 pcs
26	制御弁 / CONTROL VALVE	電磁弁 / SOLENOID VALVE	03/04-EV-015 R.H SPRAY WATER SHUT OFF VALVE SOLENOID VALVE	2 pcs
33	制御弁 / CONTROL DAMPER	電磁弁 / SOLENOID VALVE	03/04-EV-106 STEAM CONVERTER DRAIN	2 pcs
38	ダンパー / DAMPER	電磁弁 / SOLENOID VALVE	03/04-EV-285A3 2-RY AIR DAMPER CYLINDER SOLENOID VALVE	2 pcs
40	ダンパー / DAMPER	電磁弁 / SOLENOID VALVE	03/04-EV-285B1 2-RY AIR DAMPER CYLINDER SOLENOID VALVE	2 pcs
48	ダンパー / DAMPER	電磁弁 / SOLENOID VALVE	03/04-EV-284A3 1-RY AIR DAMPER CYLINDER SOLENOID VALVE	2 pcs

メジャーオーバール用供給部品表 (制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (ユニット分)
58	ボイラ BOILER	制御弁 / CONTROL VALVE	03/04-CV-115A2 BURNER ATOMIZE VALVE ASSEMBLY	2 sets
60	ボイラ BOILER	制御弁 / CONTROL VALVE	03/04-CV-115A4 BURNER ATOMIZE VALVE ASSEMBLY	2 sets
66	ボイラ BOILER	制御弁 / CONTROL VALVE	03/04-CV-116A2 BURNER PURGE VALVE	2 sets
80	ボイラ BOILER	制御弁 / CONTROL VALVE	03/04-CV-206A4 FUEL OIL BURNER VALVE ASSEMBLY	2 sets
91	ボイラ BOILER	制御弁 / CONTROL	03/04-CV-015 R.H SPRAY WATER SHUT	2 sets
99	ボイラ BOILER	制御弁 / CONTROL	03/04-CV-202 FUEL OIL SHUT OFF	2 sets
101	ボイラ BOILER	制御弁 / CONTROL	03/04-CV-236 GAS OIL SHUT OFF VALVE	2 sets
102	ボイラ BOILER	制御弁 / CONTROL	03/04-CV-262 IGNITOR GAS SHUT OFF	2 sets
103	ボイラ BOILER	制御弁 / CONTROL	03/04-FCV-201 FUEL OIL CONTROL	2 sets
105	ボイラ BOILER	制御弁 / CONTROL	03/04-FCV-235 GAS OIL FLOW CONTROL	2 sets
108	ボイラ BOILER	制御弁 / CONTROL	03/04-LCV-001 FEED WATER CONTROL	2 sets
109	ボイラ BOILER	制御弁 / CONTROL	03/04-LCV-002 FEED WATER CONTROL	2 sets
110	ボイラ BOILER	制御弁 / CONTROL	03/04-LCV-035 BLOW FLASH TANK LEVEL	2 sets
111	ボイラ BOILER	制御弁 / CONTROL	03/04-LCV-101 STEAM CONVERTER FEED	2 sets
112	ボイラ BOILER	制御弁 / CONTROL	03/04-LCV-102 STEAM CONVERTER LEVEL	2 sets

電気計装部品価格 DF2.25調整

E+I.1 Boiler 2/13

メジャーオーバーホール用供給部品表 (制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
113	ボイラー / BOILER	制御弁 / CONTROL	03/04-LCV-105 STEAM CONVERTER DRAIN	2 sets
119	ボイラー / BOILER	制御弁 / CONTROL	03/04-PCV-081 SOOT BLOWER STEAM	2 sets
120	ボイラー / BOILER	制御弁 / CONTROL	03/04-PCV-086 BOILER EXTRACTION AUX.	2 sets
123	ボイラー / BOILER	制御弁 / CONTROL	03/04-PCV-107 STEAM CONVERTER	2 sets
124	ボイラー / BOILER	制御弁 / CONTROL	03/04-PCV-108 STEAM CONVERTER BACK	2 sets
125	ボイラー / BOILER	制御弁 / CONTROL	03/04-PCV-111 BURNER ATOMIZE STEAM	2 sets
126	ボイラー / BOILER	制御弁 / CONTROL	03/04-PCV-197 LP FUEL OIL PUMP	2 sets
130	ボイラー / BOILER	制御弁 / CONTROL	03/04-TCV-011 A-S.H SPRAY WATER FLOW	2 sets
131	ボイラー / BOILER	制御弁 / CONTROL	03/04-TCV-012 B-S.H SPRAY WATER FLOW	2 sets
132	ボイラー / BOILER	制御弁 / CONTROL	03/04-TCV-013 HP TURBINE BYPASS SPRAY	2 sets
134	ボイラー / BOILER	制御弁 / CONTROL	03/04-TCV-016 R.H SPRAY WATER	2 sets
135	ボイラー / BOILER	制御弁 / CONTROL	03/04-TCV-018 LP TURBINE BYPASS SPRAY	2 sets
154	ボイラー / BOILER	記録計 / RECORDER	03/04-MR-001 FEEDWATER RECORDER	2 sets
155	ボイラー / BOILER	記録計 / RECORDER	03/04-MR-041 MAIN STEAM RECORDER	2 sets
156	ボイラー / BOILER	記録計 / RECORDER	03/04-MR-071 REHEATER RECORDER	2 sets
157	ボイラー / BOILER	記録計 / RECORDER	03/04-MR-200 FUEL AND AIR RECORDER	2 sets
158	ボイラー / BOILER	記録計 / RECORDER	03/04-MR-291 FUEL GAS RECORDER	2 sets

電気計装部品価格 DF2.25調整

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メジャーオーバールール用供給部品表 (制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (ユニット分)
159	ボイラー BOILER	記録計 / RECORDER	03/04-MR-091 AUX. STEAM RECORDER	2 sets
160	ボイラー BOILER	記録計 / RECORDER	03/04-TR-001 BOILER WATER STEAM	2 sets
161	ボイラー BOILER	記録計 / RECORDER	03/04-TR-021 SH AND RH METAL TEMP	2 sets
162	ボイラー BOILER	記録計 / RECORDER	03/04-TR-271 AIR/FLUE GAS/FUEL TEMP	2 sets
163	ボイラー BOILER	記録計 / RECORDER	03/04-AR-001 CONDUCTIVITY	2 sets
164	ボイラー BOILER	記録計 / RECORDER	03/04-AR-002 PH RECORDER	2 sets
166	ボイラー BOILER	コントローラー 7 /	03/04-CD-284A1 1-RY AIR DRMPER	2 sets
167	ボイラー BOILER	コントローラー 7 /	03/04-CD-284A2 1-RY AIR DRMPER	2 sets
168	ボイラー BOILER	コントローラー 7 /	03/04-CD-284A3 1-RY AIR DRMPER	2 sets
178	ボイラー BOILER	コントローラー 7 /	03/04-CD-285A1 2-RY AIR DRMPER	2 pcs
179	ボイラー BOILER	コントローラー 7 /	03/04-CD-285A2 2-RY AIR DRMPER	2 pcs
180	ボイラー BOILER	コントローラー 7 /	03/04-CD-285A3 2-RY AIR DRMPER	2 pcs
181	ボイラー BOILER	コントローラー 7 /	03/04-CD-285A4 2-RY AIR DRMPER	2 pcs
182	ボイラー BOILER	コントローラー 7 /	03/04-CD-285B1 2-RY AIR DRMPER	2 pcs
183	ボイラー BOILER	コントローラー 7 /	03/04-CD-285B2 2-RY AIR DRMPER	2 pcs
184	ボイラー BOILER	コントローラー 7 /	03/04-CD-285B3 2-RY AIR DRMPER	2 pcs
185	ボイラー BOILER	コントローラー 7 /	03/04-CD-285B4 2-RY AIR DRMPER	2 pcs

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電気計装部品価格 DF2.25調整

メジャーオーバーホール用供給部品表 (制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号	設備名称	装置名称	部品名称	供給数量
No.	Device	Equipment	Parts	(2ユニット分)
190	ボイラー / BOILER	コントローラー / 7 /	03/04-PCD-272A A-AH BY-PASS AIR	2 sets
191	ボイラー / BOILER	コントローラー / 7 /	03/04-PCD-272B B-AH BY-PASS AIR	2 sets
192	ボイラー / BOILER	コントローラー / 7 /	03/04-PCD-273A A-AH OUTLET AIR DRMPER	2 sets
193	ボイラー / BOILER	コントローラー / 7 /	03/04-PCD-273B B-AH OUTLET AIR DRMPER	2 sets
194	ボイラー / BOILER	コントローラー / 7 /	03/04-CD-280A A-BURNER TILTING AIR	2 sets
195	ボイラー / BOILER	コントローラー / 7 /	03/04-CD-280B B-BURNER TILTING AIR	2 sets
204	ボイラー / BOILER	コントローラー / 7 /	03/04-FCD-271A A-FDF INLET VANE	2 sets
205	ボイラー / BOILER	コントローラー / 7 /	03/04-FCD-271B B-FDF INLET VANE	2 sets
206	ボイラー / BOILER	コントローラー / 7 /	03/04-TCD-301A A-GRF INLET DAMPER	2 sets
207	ボイラー / BOILER	コントローラー / 7 /	03/04-TCD-301B B-GRF INLET DAMPER	2 sets
208	補助蒸気設備 / AUX BOILER	圧力スイッチ / PRESSURE	34-PSH-115 COMMON AUX. STEAM	1 pc
209	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-FSL-114 BURNER ATOMIZER STEAM	2 pcs
210	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSL-201 FUEL OIL HEADER PRESS	2 pcs
212	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSL-203 FUEL OIL HEADER PRESS	2 pcs
215	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSL-236 GAS OIL HEADER PRESS	2 pcs
218	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSL-262 IGNITOR GAS HEADER	2 pcs
223	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSH-041 SH OUTLET HEADER PRESS	2 pcs

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電気計装部品価格 DF2.25調整

メジャーオーバーホール用供給部品表 (制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
224	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSH-081 SOOT BLOWRE STEAM	2 pcs
225	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSH-113 BURNER ATOMIZER STEAM	2 pcs
228	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSH-281 FURNACE PRESS VERY	2 pcs
230	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSH-283 FURNACE PRESS HIGH	2 pcs
231	ボイラー / BOILER	圧力スイッチ / PRESSURE	03/04-PSH-111 BURNER ATOMIZER STEAM	2 pcs
245	ボイラー / BOILER	熱電対 / TEMPEATU	03/04-TE-061E~H RH OUTLET TUBE METAL	8 pcs
246	ボイラー / BOILER	熱電対 / TEMPEATU	03/04-TE-071 REHEATER OUTLET STEAM	2 pcs
247	ボイラー / BOILER	熱電対 / TEMPEATU	03/04-TE-072 REHEATER OUTLET STEAM	2 pcs
248	ボイラー / BOILER	熱電対 / TEMPEATU	03/04-TE-075 TURBINE INLET REHEAT	2 pcs
254	ボイラー / BOILER	熱電対 / TEMPEATU	03/04-TE-032G SH OUTLET TUBE METAL	2 pcs
255	ボイラー / BOILER	熱電対 / TEMPEATU	03/04-TE-032H SH OUTLET TUBE METAL	2 pcs
262	ボイラー / BOILER	熱電対 / TEMPEATU	03/04-TE-061A~D RH OUTLET TUBE METAL	8 pcs
263	ボイラー / BOILER	熱電対 / TEMPEATU	03/04-TE-031C~H PRIMARY SH OUTLET TUBE	12 pcs
264	ボイラー / BOILER	熱電対 / TEMPEATU	03/04-TE-032A~F SH OUTLET TUBEMETAL	12 pcs
267	ボイラー / BOILER	熱電対 / TEMPEATU RE	03/04-TE-021A ECO. OUTLET FBED WATER TEMP-(1)	2 pcs
271	ボイラー / BOILER	熱電対 / TEMPEATU RE	03/04-TE-023A A-SH-DSH OUTLET STEAM TEMP-(1)	2 pcs

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電気計装部品価格 DF2.25調整

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メジャーオーバーホール用供給部品表(制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
273	ボイラー BOILER	熱電対 / TEMPERATURE RE	03/04-TE-024A A-SH-DSH OUTLET STEAM TEMP-(2)	2 pcs
277	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-001 MAIN FEEDWATER	2 sets
278	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-002 START UP FEEDWATER	2 sets
279	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-011 A-SH SPRAY CONTROL	2 sets
280	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-012 B-SH SPRAY CONTROL	2 sets
281	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-013 HP TURBINE BYPASS SPRAY	2 sets
282	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-016 RH SPRAY CONTROL	2 sets
283	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-018 LP TURBINE BYPASS SPRAY	2 sets
284	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-092A A-AH COLD END TEMP	2 sets
285	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-092B B-AH COLD END TEMP	2 sets
286	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-197 FUEL OIL PUMP PRESS	2 sets
287	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-200 FUEL OIL TEMP CONTROL	2 sets
288	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-201 FUEL OIL TEMP CONTROL	2 sets
289	ボイラー / BOILER	アイストリビュータ - /	03/04-XD-011 SH SPRAY WATER FLOW	2 pcs
291	ボイラー / BOILER	アイストリビュータ - /	03/04-XD-021 BOILER DRUM WATER	2 pcs
293	ボイラー / BOILER	アイストリビュータ - /	03/04-XD-086 AUX STEAM HEADER PRESS	2 pcs
301	ボイラー / BOILER	コントローラ / CONTROLL	03/04-LC-035 BLOW FLASH TANK LEVEL	2 pcs

電気計装部品価格 DF2.25調整

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メジャーオーバール用供給部品表(制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2=ユニット分)
302	ボイラー / BOILER	コントローラ / CONTROLL	03/04-LC-095A SAH DRAIN TANK LEVEL-	2 pcs
306	ボイラー / BOILER	コントローラ / CONTROLL	03/04-LC-105 STEAM CONVERTER DRAIN	1 pcs
310	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-235 GAS OIL FLOW CONTROL	2 sets
311	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-271A A-FDF	2 sets
312	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-271B B-FDF	2 sets
313	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-272A A-AH BYPASS AIR DAMPER	2 sets
314	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-272B B-AH BYPASS AIR DAMPER	2 sets
315	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-273A A-AH BYPASS AIR DAMPER	2 sets
316	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-273B B-AH BYPASS AIR DAMPER	2 sets
317	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-281 BURNER TILT	2 sets
318	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-284 1-RY AIR DAMPER	2 sets
319	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-285 2-RY AIR DAMPER	2 sets
320	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-301A A-GRF	2 sets
321	ボイラー / BOILER	ハルス / 空気 変換器 /	03/04-PM-301B B-GRF	2 sets
322	ボイラー / BOILER	信号変換器 / SIGNAL	03/04-FM-001 FEEDWATER FLOW	2 pcs
323	ボイラー / BOILER	信号変換器 / SIGNAL	03/04-FM-011 SH SPRAY WATER FLOW	2 pcs
328	ボイラー / BOILER	信号変換器 / SIGNAL	03/04-FM-201A FUEL OIL FLOW	2 pcs

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電気計装部品価格 DF2.25調整

E+H.1.Boiler 8/13

メジャーオーバーホール用供給部品表(制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
329	ボイラー / BOILER	信号変換器 / SIGNAL	03/04-FM-201B FUEL OIL FLOW EL0841-650020	2 pcs
332	ボイラー / BOILER	信号変換器 / SIGNAL	03/04-PM-284A SIGNAL CONVERTER (A-	2 pcs
335	ボイラー / BOILER	信号変換器 / SIGNAL	03/04-PM-285A BIAS LOADER (LEFT) (2RY	2 pcs
337	ボイラー / BOILER	信号変換器 / SIGNAL	03/04-PM-286A SUMMING UNIT FOR BIAS	2 pcs
339	ボイラー / BOILER	警報設定器 / ALARM	03/04-PM-202A FUEL OIL HEADER PRESS.	2 pcs
342	ボイラー / BOILER	信号変換器 / SIGNAL	03/04-TM-281A FURNACE GAS TEMP	2 pcs
344	ボイラー / BOILER	ディスプレイ -	03/04-XD-011 SH SPRAY WATER FLOW	2 pcs
346	ボイラー / BOILER	ディスプレイ -	03/04-XD-021 BOILER DRUM WATER	2 pcs
347	ボイラー / BOILER	ディスプレイ -	03/04-XD-023 BOILER DRUM EATER	2 pcs
363	ボイラー / BOILER	H/A ステーション / H/A STATION	03/04-HA-005C C-BFP HYDRAULIC COUPLING CONTROL DRIVE	2 pcs
364	ボイラー / BOILER	H/A ステーション / H/A STATION	03/04-HA-006A BFP PRESS/SET	2 pcs
365	ボイラー / BOILER	H/A ステーション / H/A STATION	03/04-HA-006B B-BFP BIAS	2 pcs
367	ボイラー / BOILER	H/A ステーション / H/A STATION	03/04-HA-011 A-SH SPRAY CONTROL VALVE	2 pcs
373	ボイラー / BOILER	H/A ステーション / H/A STATION	03/04-HA-018 LP TURBINE BYPASS SPRAY CONTROL VALVE	2 pcs

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電気計装部品価格 DF2.25調整

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メジャーオーバーホール用供給部品表 (制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号	設備名称 No. Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
374	ボイラー / BOILER	H/A ステーション / H/A STATION	03/04-HA-021 DRUM LEVEL/SET	2 pcs
417	ボイラー / BOILER	ストローク設定器 / STROKE	34-HA-343A A-N2H4 PUMP STROKE	1 pc
420	ボイラー / BOILER	コントローラ / CONTROLL	03/04-PC-081 SOOT BLOWER STEAM	2 pcs
421	ボイラー / BOILER	コントローラ / CONTROLL	03/04-PC-086 BOILER EXTRACTION AUX.	2 pcs
422	ボイラー / BOILER	コントローラ / CONTROLL	03/04-PC-087 LTR. AUX. STEAM PRESS.	2 pcs
423	ボイラー / BOILER	コントローラ / CONTROLL	03/04-PC-091 SAH HEATING STEAM	2 pcs
429	ボイラー / BOILER	コントローラ / CONTROLL	03/04-LC-035 BLOW FLASH TANK LEVEL	2 pcs
430	ボイラー / BOILER	コントローラ / CONTROLL	03/04-LC-095A SAH DRAIN TANK LEVEL-	2 pcs
434	ボイラー / BOILER	コントローラ / CONTROLL	03/04-LC-105 STEAM CONVERTER DRAIN	2 pcs
458	ボイラー / BOILER	ハータ装置 / BURNER	GAS IGNITOR LIMIT SWITCH	6 pcs
463	ボイラー / BOILER	消火設備 / FIRE	SOLENOID VALVE FOR AUTOMATIC VALVE 200A	3 pcs
465	ボイラー / BOILER	消火設備 / FIRE	SOLENOID VALVE FOR DELUGE VALVE 100A	4 pcs
466	ボイラー / BOILER	消火設備 / FIRE	SOLENOID VALVE FOR DELUGE VALVE 150A	3 pcs
467	ボイラー / BOILER	B-SAH DRAIN	GASKET (NO.6) V#1500	2 pcs
471	ボイラー / BOILER	BLDW FLASH	GASKET (NO.6) V#1500	2 pcs
475	ボイラー / BOILER	STEAM CONVERTE	GASKET (NO.6) V#1500	2 pcs
479	ボイラー / BOILER	STEAM CONVERTE	GASKET (NO.6) V#1500	2 pcs

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電気計装部品価格 DF2.25調整

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メジャーオーバーホール用供給部品表(制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
483	ボイラー BOILER	FUEL OIL TX	GASKET (NO.6) V#1500	2 pcs
487	ボイラー BOILER	STEAM CONVERTE	GASKET (NO.6) V#1500	2 pcs
491	ボイラー BOILER	LEEVEL SWITCH	GASKET (NO.36) V#592	4 pcs
495	ボイラー BOILER	バーナ装置 / BURNER	ACTUATOR MOD:TA-30D-0 FOR OIL BURNER VALVE	10 pcs
497	ボイラー BOILER	バーナ装置 / BURNER EQUIPMENT	MOTORIZED BALL VALVE (20A)FOR IGNITERS MAKER:TOHO SEISAKUSHO.CO	4 pcs
500	ボイラー BOILER	バーナ装置 / BURNER EQUIPMENT	BURNER PURGE VALVE COMPLETE TYPE:SINGLE ACTING 25A PISTON VALVE	4 pcs
501	ボイラー BOILER	AIR HEATER FIRE DETECTION FOR UNIT (U3+U4)	THERMOCOUPLES PROBE WITH LEAD WIRE THERMIC LENGTH:1280mm φ 2.2mm SLEEVE LENGTH:55mm φ 8mm LEND WIRE ENGTH:100mm MATERIAL OF SLEEVE SUS 304	10 pcs
506	ボイラー BOILER	AIR HEATER FIRE	COMPARATOR UNIT POWER SUPPLY	1 pc
507	ボイラー BOILER	AIR HEATER FIRE	COMPARATOR UNIT 1 (CU- 1)GAS AT MEASURING	1 pc
508	ボイラー BOILER	AIR HEATER FIRE	COMPARATOR UNIT 2 (CU- 2)	1 pc
509	ボイラー BOILER	AIR HEATER FIRE	EMF CONVERTER MODEL STED 110B/TB	1 pc

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電気計装部品価格 DF2.25調整

E+I.1Boiler 11/13

メジャーオーバーホール用供給部品表(制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2エニット分)
510	ボイラー / BOILER	AIR HEATER FIRE	TEMPERATUR INDICATOR WITH DIAL SET POINT	2 pcs
511	ボイラー / BOILER	AIR HEATER FIRE	MONITOR INDICATOR DOUBLE INDICATOR	2 pcs
515	ボイラー / BOILER	CURRENT TO	GASKET FOR PILOT CO 100EM	2 sets
516	ボイラー / BOILER	CURRENT TO	GASKET FOR PILOT CO 100EC (F9138YW)	2 sets
518	ボイラー / BOILER	AIR SET REG-12-	GASKET F9140AF	2 sets
520	ボイラー / BOILER	AIR SET REG-12-	GASKET F9140AR	2 sets
521	ボイラー / BOILER	AIR SET REG-12-	WASHER X0102CE	4 sets
531	ボイラー / BOILER	CONDUCTI VITY	O-RING FOR CONVERTER P/N G9303AZ	1 set
532	ボイラー / BOILER	CONDUCTI VITY	O-RING FOR CONVERTER P/N G9303AZ	2 sets
533	ボイラー / BOILER	PH TRANSMITT	GLASS ELECTRODE FOR SENSOR P/N K9142TN	3 pcs
534	ボイラー / BOILER	PH TRANSMITT	JUNCTION FOR SENSOR P/N K9142TK	3 pcs
535	ボイラー / BOILER	PH TRANSMITT	DESICCATIVEE FOR CONVERTER P/N K9020XR	3 sets
536	ボイラー / BOILER	PH TRANSMITT	O-RING FOR CONVERTER P/N G9303AZ	2 sets
537	ボイラー / BOILER	PH TRANSMITT	CALIBLATION KCL POWDER P/N K9020XU	3 pcs
538	ボイラー / BOILER	PH TRANSMITT	CALIBLATION PH4 BUFFER POWDER P/N	3 pcs
539	ボイラー / BOILER	PH TRANSMITT	CALIBLATION PH7 BUIEEEER POWDER P/N	3 pcs
543	ボイラー / BOILER	OXYGEN ANALYZER	CONDENSOR FOR CONVERTER C162	1 set

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電気計装部品価格 DF2.25調整

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メジャーオーバーホール用供給部品表 (制御関係)

Electric & Instrumentation for Major Overhaul (Boiler)

番号	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
544	ホ17 / BOILER	OXYGEN ANALYZER	CONDENSOR FOR CONVERTER C165	2 sets
545	ホ17 / BOILER	OXYGEN ANALYZER	CONDENSOR FOR CONVERTER C177	1 set
546	ホ17 / BOILER	OXYGEN ANALYZER	CONDENSOR FOR CONVERTER D101	2 sets
547	ホ17 / BOILER	OXYGEN ANALYZER	CONDENSOR FOR CONVERTER D202 DIGITAL	2 sets
548	ホ17 / BOILER	OXYGEN ANALYZER	ZERO GAS CYLINDER P/N G7001ZC	2 pcs
605	ホ17 / BOILER	STACK TV	CCD COLOR CAMERA	1 sets
606	ホ17 / BOILER	STACK TV	CAMERA CASE	1 sets
607	ホ17 / BOILER	STACK TV	21 INCH COLOR MONITOR	1 sets
608	ホ17 / BOILER	STACK TV	SWITCH BOX (POWER ON- OFF)	1 sets
609	ホ17 / BOILER	STACK TV	CABLE	1 sets
610	ホ17 / BOILER	コントロ-ルバル ブ /	TCV-016 REHEATER SPRAY WATER	2 pcs
611	ホ17 / BOILER	コントロ-ルバル ブ /	TCV-016 REHEATER SPRAY WATER	2 pcs
612	ホ17 / BOILER	コントロ-ルバル ブ /	TCV-016 REHEATER SPRAY WATER	2 pcs
613	ホ17 / BOILER	コントロ-ルバル ブ /	TCV-016 REHEATER SPRAY WATER	2 pcs
618	ホ17 / BOILER	コントロ-ルバル ブ /	DSCV-G1 PO-200-125S PCV-041	1 sets
619			MIN FLOW	6 sets

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電気計装部品価格 DF2.25調整

E+11.1Boiler 13/13

メジャーオーバーホール用供給部品表(制御関係)

Electric & Instrumentation for Major Overhaul (Boiler Common)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
1	空気圧縮機 / AIR	電磁弁 / SOLENOID	34-EV-332A A-SERVICE AIR	1 pc
2	空気圧縮機 / AIR	電磁弁 / SOLENOID	34-EV-332B B-SERVICE AIR	1 pc
3	空気圧縮機 / AIR	電磁弁 / SOLENOID	A-SERVICE AIR COMPRESSOR UNLOADING	1 pc
4	空気圧縮機 / AIR	電磁弁 / SOLENOID	B-SERVICE AIR COMPRESSOR UNLOADING	1 pc
23	水処理設備 / WATER	手動特作器 / MANUAL	ZC-181A ALUM PUMP RATIO SETTER	1 set
24	水処理設備 / WATER	手動特作器 / MANUAL	ZC-131 ACID PUMP-CW RATIO	1 set
25	水処理設備 / WATER	手動特作器 / MANUAL	ZIC-135 HYPO. PUMP RATIO	1 set
26	水処理設備 / WATER	手動特作器 / MANUAL	ZC-140H ACID INJECTION PUMP DH	2 sets
27	水処理設備 / WATER	手動特作器 / MANUAL	ZC-140H CAUSTIC SODA INJECTION	2 sets
28	水処理設備 / WATER	信号変換器 / SIGNAL	FY-131 CLARIFIER	1 set
29	水処理設備 / WATER	信号変換器 / SIGNAL	FY-135 ACTIVATED CARBON	1 set
30	水処理設備 / WATER	信号変換器 / SIGNAL	LY-138 FILTERED WATER	1 set
31	水処理設備 / WATER	信号変換器 / SIGNAL	FD-131 CLARIFIER INLET FLOW	1 set
32	水処理設備 / WATER	信号変換器 / SIGNAL	LD-138 FILTERED WATER	1 set
33	水処理設備 / WATER	信号変換器 / SIGNAL	AD-141A/AD-141B ANION EXCHANGER	2 sets
34	水処理設備 / WATER	信号変換器 / SIGNAL	AD-142A/AD-142B MIXED BED EXCHANGER	2 sets
35	水処理設備 / WATER	温度スイッチ / TEMP.SWIT	TIS-141 CAUSTIC SODA FILLING	1 set
36	水処理設備 / WATER	温度スイッチ / TEMP.SWIT	TIS-142 CAUSTIC SODA DILUTION	1 set
37	空気圧縮機 / AIR	圧力スイッチ / PRESSURE	34-FSH-325 INSTRUMENT AIR PRESS	1 pc
39	空気圧縮機 / AIR	圧力スイッチ / PRESSURE	34-PSL-321A A-INST. AIR COMPRESSOR	1 pc
40	空気圧縮機 / AIR	圧力スイッチ / PRESSURE	34-PSL-321B B-INST. AIR COMPRESSOR	1 pc
41	空気圧縮機 / AIR	圧力スイッチ / PRESSURE	34-PSL-331A A-SERVICE AIR	1 pc

メジャーオーバーホール用供給部品表(制御関係)

Electric & Instrumentation for Major Overhaul (Boiler Common)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
42	空気圧縮機 / AIR	圧力スイッチ / PRESSURE	34-PSL-331B B-SERVICE AIR	1 pc
43	空気圧縮機 / AIR	圧力スイッチ / PRESSURE	34-PSL-326 INSTRUMENT AIR PRESS	1 pc
44	空気圧縮機 / AIR	圧力スイッチ / PRESSURE	34-PSL-327 INSTRUMENT AIR PRESS	1 pc
48	排水処理設 備 / WASTE	DIAPHRAGM VALVE FOR	DLAPHRAGM	2 sets
49	排水処理設 備 / WASTE	DIAPHRAGM VALVE FOR	O-RING	2 sets
50	排水処理設 備 / WASTE	DIAPHRAGM VALVE FOR	AIR SET	2 sets
51	排水処理設 備 / WASTE	DIAPHRAGM VALVE FOR	SOLENOID VALVE	2 sets
52	排水処理設 備 / WASTE	SOLENOID VALVE FOR	SOLENOID VALVE FOR ACID INJECTION	2 sets
59	水処理設備 / WATER	DEMI. & PRETREATM	TIMER H5AN 4 DIGITS	8 pcs
62	水処理設備 / WATER	DEMI. & PRETREATM	CONDUCTIVITY TRANSMITTER WITH	2 pcs
63	水処理設備 / WATER	DEMI. & PRETREATM	FIC-131 PROGRAMMABLE CONTROLLER	1 pc
64	水処理設備 / WATER	DEMI. & PRETREATM	FLOW MENTER FIT 149 A/B	2 pcs
65	コモン / COMMON	DEMI. & PRETREATM	FLOATLESS LEVCL SWITCH TYPE:61F-G3	1 pc
66	コモン / COMMON	DEMI. & PRETREATM	RELAY UNIT 61F-11	3 pcs
67	コモン / COMMON	DEMI. & PRETREATM	LEVCL SWITCH TYPE:FR20VS	3 pcs
68	コモン / COMMON	RAW WATER RESERVOIR	GASKET (NO.6) V#1500	1 pc
69	コモン / COMMON	RAW WATER RESERVOIR	GASKET (NO.8) V#1500	1 pc
70	コモン / COMMON	RAW WATER RESERVOIR	GASKET (NO.10) V#1500	2 pcs
71	コモン / COMMON	RAW WATER RESERVOIR	GASKET (NO.25) V#1500	2 pcs
74	圧縮空気設 備 / AIR	コック用 計器 / AIR	PRESSURE SWITCH φ6(1/4)FLAR NUT PROCESS	5 pcs
80	コモン / COMMON	SILICA ANALYZER	1SET OF SPARE PART	1 pc
81	コモン / COMMON	SILICA ANALYZER	REAGENT PUMP	3 pcs

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メジャーオーバーホール用供給部品表(制御関係)

Electric & Instrumentation for Major Overhaul (Boiler Common)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
85	モーター / COMMON	HYDRAULIC SERVO	SERVO AMPLIFIER MODEL SA1-20-12X	

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メジャーオーバーホール用供給部品表(電気関係)

Electric & Instrumentation for Major Overhaul (Boiler Electric)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
1	スートブロワ /Soot Blowers	セレクタースイッチ /Selector switch	SELECTOR SWITCH/(43-1A)MAN-AUTO	1 PC
2	スートブロワ /Soot Blowers	表示灯/Lamp	LAMP/NO.1-NO.8+AH1-AH2 RED	3 PCS
3	スートブロワ /Soot Blowers	セレクタースイッチ /Selector switch	SELECTOR SWITCH/(43-1P)A-BP-M-START	4 PCS
4	スートブロワ /Soot Blowers	マイクロスイッチ /Micro switch	MICRO SWITCH/ Y16 CAT: 5-87E	5 PCS
5	スートブロワ /Soot Blowers	マイクロスイッチ /Micro switch	MICRO SWITCH/ Y16 CAT: 88209	2 PCS
6	スートブロワ /Soot Blowers	モータ/Motor	MOTOR FOR ECO. SOOT BLOWERS/FRAME NO.D71FD	1 PC
7	スートブロワ /Soot Blowers	モータ/Motor	MOTOR FOR LONG SOOT BLOWERS/ FRAME NO. D90LD	2 PCS
8	スートブロワ /Soot Blowers	モータ/Motor	MOTOR FOR ROTARY SOOT BLOWERS/ TYPE (AF-SE) FRAME 80	1 PC
9	スートブロワ /Soot Blowers	電動弁 /Motor valve	MOTOR VALVE /TYPE (SMC-03) SPEED (19.3)	1 PC
10	スートブロワ /Soot Blowers	マイクロスイッチ /Micro switch	MICRO SWITCH EXPLOSION PROOF TYPE/ (g2G4) CAT: 1LX5001	2 PCS
11	バーナー制御装置/ Burner Management System	バーナー操作盤 /Burner Operation Panel	Pushbutton Switch / TYPE:A3PJ-90A11-12EW	34 PCS
12	バーナー制御装置/ Burner Management System	バーナー操作盤 /Burner Operation Panel	Pushbutton Switch / TYPE:A3PJ-90A21-12ERW	22 PCS
13	バーナー制御装置/ Burner Management System	バーナー操作盤 /Burner Operation Panel	Pushbutton Switch / TYPE:A3PJ-90A11-12EG	22 PCS

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14	ハ-ナ制御装置/Burner Management System	ハ-ナ操作盤/Burner Operation Panel	Indicator(Indicator Unit) / TYPE:M2PJ-5023	24 PCS
15	ハ-ナ制御装置/Burner Management System	ハ-ナ操作盤/Burner Operation Panel	Indicator(Indicator Unit) / TYPE:M2PJ-5026	48 PCS
16	ハ-ナ制御装置/Burner Management System	ハ-ナ操作盤/Burner Operation Panel	Indicator(Switch Unit) / TYPE:M2PJ-7010-1	72 PCS
17	ハ-ナ制御装置/Burner Management System	ハ-ナ操作盤/Burner Operation Panel	Indicator(LED Lamps) / TYPE:SLL-12ER	192 PCS
18	ハ-ナ制御装置/Burner Management System	ハ-ナ操作盤/Burner Operation Panel	Indicator(LED Lamps) / TYPE:SLL-12EG	96 PCS
19	ハ-ナ制御装置/Burner Management System	ハ-ナ操作盤/Burner Operation Panel	Indicator(Colored plate) / TYPE:A3PJ-5333	24 PCS
20	ハ-ナ制御装置/Burner Management System	ハ-ナ操作盤/Burner Operation Panel	Indicator(Colored plate) / TYPE:A3PJ-5362	48 PCS
21	ハ-ナ制御装置/Burner Management System	ハ-ナ操作盤/Burner Operation Panel	Indicator(Colored plate) / TYPE:A3PJ-5363	48 PCS
22	ハ-ナ制御装置/Burner Management System	ハ-ナ操作盤/Burner Operation Panel	Switch Guard / TYPE:A3PJ-5050	78 PCS
25	中央制御室設備/Main Control Room	中央制御盤/Main Control Desk	Complete Set of Main & Aux. Equipments except Push Buttons	

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マジヤオーバーホール用供給部品表(電気関係)
Electric & Instrumentation for Major Overhaul (Boiler Electric Common)

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	供給数量 (2ユニット分)
1	インターフォ ン /Interphone	ページング セット/Paging Set	Paging Set/WP-2920(IC TYPE:B112)	8 pcs
2	非常用ディー ゼル /Emergency Diesel Generator	非常用ディー ゼル制御装置 /Emergency Diesel Generator Control Panel	CONTROL TABLEU, DOOR MOUNTED	1 pc
3	非常用ディー ゼル /Emergency Diesel Generator	非常用ディー ゼル制御装置 /Emergency Diesel Generator Control Panel	PROGRAMMABLE CONTROLLER, AEG	1 pc
4	非常用ディー ゼル /Emergency Diesel Generator	非常用ディー ゼルエンジン /Emergency Diesel Engine	Valve Set for 1 cylinder (2 inlet + 2 outlet with Spring, Coilets, Guide)	12 pcs
5	非常用ディー ゼル /Emergency Diesel Generator	非常用ディー ゼルエンジン /Emergency Diesel Engine	Speed Governor with Pick-up	1 pc
6	非常用ディー ゼル /Emergency Diesel Generator	非常用ディー ゼルエンジン /Emergency Diesel Engine	Piston Ring Set	12 pcs
7	非常用ディー ゼル /Emergency Diesel Generator	非常用ディー ゼルエンジン /Emergency Diesel Engine	Piston Ass y	12 pcs
8	非常用ディー ゼル /Emergency Diesel Generator	非常用ディー ゼルエンジン /Emergency Diesel Engine	Liner	12 pcs
9	非常用ディー ゼル /Emergency Diesel Generator	発電機リレー /Generator Relays	Set of Overcurrent and Short Circuit Relays	1 set

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SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Generator and auxiliaries)

No.	System 設備名稱	Equipment 裝備名稱	Parts Name	Specification	Quantity	Rank
1	Generator	Bearing	Tongued Washer	M30	8	A
2	Generator	Gland Seal	Lock Wire	SWA-C3, Φ1.2-150	2	A
3	Generator	Bearing Seat	Tongued Washer	M20	4	A
4	Generator	Bearing Key	Tongued Washer	M24	4	A
5	Generator	Bearing Ins. Seat	Tongued Washer	M16	8	A
6	Generator	Air Gap Baffle	Brass Tongued Washer	M24	10	A
7	Generator	Blower Shroud	Tongued Washer	M16	72	A
8	Generator	Rotor Blade	Seating Plate	SK-5, 0.8-12X650	12	A
9	Generator	Rotor Blade	Seating Rubber	Silicon Rubber. 7X10-850	12	A
10	Generator	Stator Blade	Seating Plate	PBSP-H, t0.8-12X950	28	A
11	Generator	Stator Blade	Seating Rubber	Silicon Rubber. 7X10-950	28	A
12	Generator	Frame Baffle	Tongued Washer	M16	63	A
13	Generator	Spacer	Tongued Washer	M20	34	A
14	Generator	Adjusting Support	Tongued Washer	M24	4	A
15	Generator	Adjusting Support	Tongued Washer	M36	2	A
16	Generator	Radial Conductor	Brass Tongued Washer	AM07128-10	2	A
17	Generator	Radial Conductor	Gasket	AM07127-3	8	A
18	Generator	H2 Cooler	Diaphragm	A31406-1	2	A
19	Generator	Blade	Bonding Agent	ALTECO 60cc	1	A
20	Generator	Blade	Treating Agent	KPB-40, 250g	1	A
21	Generator	Rotor Blade	Fiber Bar	t10-50X200	4	A
22	Generator	Bolt	Lock Tight	SCREW (AR-619)	1	A
23	Generator	Rotor	Fiber Sheet	t0.8-1000X8000	1	A
24	Generator	Rotor	Press Board	t0.8	20	A
25	Generator	Radial Conductor	Teflon Powder	10g	1	A
26	Exciter	Bearing Pedestal	Pawl Washer	AP25913-1	6	A
27	Exciter	Bearing Pedestal	Lock Wire	SUS 304-W1 Φ1.6-4m	1	A
28	Exciter	Air cooler	Secrete Compound	3kg	1	A
29	Exciter	Fan Guide Baffle	Tongued Washer	M12	16	A
30	Exciter	Fan Guide	Tongued Washer	M10	15	A
31	Exciter	Fan Guide	2 Hole Washer	AG27566-7	8	A
32	Exciter	Rectifier Wheel	3 Hole Washer	AG63146-2	4	A
33	Exciter	Rectifier Wheel	Tongued Washer	M10	48	A
34	Exciter	Rectifier Wheel	Tongued Washer	M12	10	A
35	Exciter	Rectifier Wheel	Tongued Washer	M10	26	A
36	Exciter	Rectifier Wheel	2 Hole Washer	AG63146-1	2	A
37	Exciter	Rectifier Wheel	Tongued Washer	M8	8	A
38	Exciter	PMG Frame	Pawl Washer	M20	4	A
39	Exciter	Housing	Tongued Washer	M8	2	A
40	Exciter	Housing	Tongued Washer	M10	18	A
41	Exciter	Hold Down Bolt	Tongued Washer	M42	4	A
42	Exciter	Hold Down Bolt	Tongued Washer	M8	48	A
43	Seal Oil System	AC Pump	Mechanical Seal	SC-460M/D	1	A
44	Seal Oil System	AC Pump	O-Ring	G-145	2	A

SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Generator and auxiliaries)

No.	System 設備名稱	Equipment 裝置名稱	Parts Name	Specification	Quantity	Rank
45	Seal Oil System	AC Pump	O-Ring	G-65	2	A
46	Seal Oil System	AC Pump	Bearing	Φ82.9X74.4Xh55	1	A
47	Seal Oil System	AC Pump	Bearing	Φ82.9X74.4Xh52	3	A
48	Seal Oil System	AC Pump	Bearing	6309ZZ	1	A
49	Seal Oil System	AC Pump	Bearing	6308ZZ	1	A
50	Seal Oil System	DC Pump	Mechanical Seal	SC-400MJD	1	A
51	Seal Oil System	DC Pump	O-Ring	G-145	2	A
52	Seal Oil System	DC Pump	O-Ring	G-65	2	A
53	Seal Oil System	DC Pump	Bearing	Φ82.9X74.4Xh55	1	A
54	Seal Oil System	DC Pump	Bearing	Φ82.9X74.4Xh52	3	A
55	Seal Oil System	DC Pump	Bearing	6314VV	1	A
56	Seal Oil System	DC Pump	Bearing	6316VV	1	A
57	Seal Oil System	Vacuum Pump	Oil Seal	S385811	2	A
58	Seal Oil System	Vacuum Pump	Oil Seal	SC-30-42-8	2	A
59	Seal Oil System	Vacuum Pump	Bearing	6307ZZ	2	A
60	Seal Oil System	Vacuum Pump	Bearing	6311ZZ	1	A
61	Seal Oil System	Vacuum Pump	Bearing	6310ZZ	1	A
62	Seal Oil System	Cooler	O-Ring	G250	4	A
63	Seal Oil System	Cooler	O-Ring	P285	4	A
64	Seal Oil System	Cooler	Packing	CR 11X12-270X135	2	A
65	Seal Oil System	Cooler	Packing	CR 11X12-250	2	A
66	Seal Oil System	Cooler	Galvanic Anode	Φ60X8.5Xt20	10	A
67	Seal Oil System	Filter	O-Ring	P16	4	A
68	Seal Oil System	Filter	O-Ring	P24	2	A
69	Seal Oil System	Filter	O-Ring	P90	2	A
70	Seal Oil System	Filter	Packing	V#1500	2	A
71	Seal Oil System	Vapor Extractor	Bearing	6204ZZ	1	A
72	Seal Oil System	Vapor Extractor	Bearing	6203ZZ	1	A
73	Seal Oil System	Butterfly Valve	Seating Ring	Φ139X104Xh53	1	A
74	Seal Oil System	Butterfly Valve	O-Ring	P14	2	A
75	Seal Oil System	Butterfly Valve	O-Ring	P18	2	A
76	Seal Oil System	Dif. Pres. Regulator	O-Ring	G66	2	A
77	Seal Oil System	Dif. Pres. Regulator	O-Ring	G30	1	A
78	Seal Oil System	Dif. Pres. Regulator	O-Ring	G170	2	A
79	Seal Oil System	Back Up Regulator	O-Ring	G66	2	A
80	Seal Oil System	Back Up Regulator	O-Ring	G30	1	A
81	Seal Oil System	Back Up Regulator	O-Ring	G170	2	A
82	Seal Oil System	Float Valve	O-Ring	Viton P10	1	A
83	Seal Oil System	Float Valve	O-Ring	P14	1	A
84	Seal Oil System	Float Valve	Packing	V#1500	1	A
85	Seal Oil System	Float Valve	Packing	Viton	1	A
86	Seal Oil System	Float Valve	O-Ring	Viton P10	1	A
87	Seal Oil System	Float Valve	O-Ring	Viton P14	1	A
88	Seal Oil System	Float Valve	Packing	V#1500	1	A

SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Generator and auxiliaries)

No.	System 設備名稱	Equipment 設備名稱	Parts Name	Specification	Quantity	Rank
89	Seal Oil System	Floot Valve	Packing	Viton	1	A
90	Seal Oil System	Relief Valve	O-Ring	P50A	1	A
91	Seal Oil System	Relief Valve	Gasket	V#1500	1	A
92	Seal Oil System	Relief Valve	Gasket	V#1500	1	A
93	Seal Oil System	Oil Level Ann.	O-Ring	P29	2	A
94	Seal Oil System	Oil Level Ann.	O-Ring	P16	2	A
95	Seal Oil System	Oil Level Ann.	O-Ring	G80	2	A
96	Seal Oil System	Oil Level Ann.	O-Ring	P8	2	A
97	Seal Oil System	Oil Level Ann.	O-Ring	P60A	4	A
98	Seal Oil System	Oil Valve(3)	Packing	Teflon	3	A
99	Seal Oil System	Oil Valve(3)	Gasket	V#1500	3	A
100	Seal Oil System	Oil Valve(3)	Gasket	V#1500	3	A
101	Seal Oil System	Oil Valve(1/2)	O-Ring	P18	12	A
102	Seal Oil System	Oil Valve(1/2)	O-Ring	P26	6	A
103	Seal Oil System	Oil Valve(1/2)	Gasket	V#1500	6	A
104	Seal Oil System	Oil Valve(1)	O-Ring	P15	4	A
105	Seal Oil System	Oil Valve(1)	O-Ring	P22	4	A
106	Seal Oil System	Oil Valve(1)	O-Ring	V#1500	2	A
107	Seal Oil System	Oil Valve(1/2)	O-Ring	P22	10	A
108	Seal Oil System	Oil Valve(1/2)	O-Ring	P10	10	A
109	Seal Oil System	Oil Valve(1/4)	O-Ring	P16	14	A
110	Seal Oil System	Oil Valve(1/4)	O-Ring	P8	14	A
111	Seal Oil System	Oil Valve(needle)	O-Ring	P16	3	A
112	Seal Oil System	Oil Valve(needle)	O-Ring	P8	3	A
113	Seal Oil System	Check Valve(2)	O-Ring	P20	6	A
114	Seal Oil System	Check Valve(2)	O-Ring	P31	3	A
115	Seal Oil System	Check Valve(2)	Gasket	V#1500	3	A
116	Seal Oil System	Check Valve(1/2)	Gasket	V#1500	3	A
117	Seal Oil System	Check Valve(1/4)	Gasket	V#1500	2	A
118	Seal Oil System	Relief Valve(1/2)	O-Ring	P60	1	A
119	Seal Oil System	Relief Valve(1/2)	Gasket	V#1500	1	A
120	Seal Oil System	Relief Valve(1/2)	Gasket	V#1500	1	A
121	Seal Oil System	Oil Valve(1/2)	O-Ring	P18	2	A
122	Seal Oil System	Oil Valve(1/2)	O-Ring	P26	1	A
123	Seal Oil System	Oil Valve(1/2)	Gasket	V#1500	1	A
124	Seal Oil System	Oil Valve(1/2)	O-Ring	P18	2	A
125	Seal Oil System	Oil Valve(1/2)	O-Ring	P26	1	A
126	Seal Oil System	Oil Valve(1/2)	Gasket	V#1500	1	A
127	Seal Oil System	Oil Valve(3/8)	O-Ring	P18	1	A
128	Seal Oil System	Oil Valve(3/8)	O-Ring	P90	1	A
129	Seal Oil System	Pres.Reducing Valve	O-Ring	P38	1	A
130	Seal Oil System	Pres.Reducing Valve	O-Ring	G35	1	A
131	Seal Oil System	Pres.Reducing Valve	O-Ring	P40	1	A
132	Seal Oil System	Pres.Reducing Valve	O-Ring	P12	1	A

電氣計裝部品價格 DF2.25調整

E + I 3.1 Generator 3/6

SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Generator and auxiliaries)

No.	System 設備名稱	Equipment 設備名稱	Parts Name	Specification	Quantity	Rank
133	Seal Oil System	Pres.Reducing Valve	Diaphragm	NBR	1	A
134	Seal Oil System	Pres.Reducing Valve	Packing	Teflon	6	A
135	Seal Oil System	3 Way Valve	Seat	Teflon	6	A
136	Seal Oil System	3 Way Valve	Gasket	Teflon	4	A
137	Seal Oil System	3 Way Valve	Gland Packing	Teflon	4	A
138	Seal Oil System	Oil Level Gauge	Gasket	V#1500AC	1	A
139	Seal Oil System	Oil Level Gauge	Gasket	T#6520	1	A
140	Seal Oil System	Oil Level Gauge	Gland Packing	V#7137	2	A
141	Seal Oil System	Oil Level Gauge	Gland Packing	V#7137	1	A
142	Seal Oil System	Oil Level Gauge	Gasket	V#1500AC	1	A
143	Seal Oil System	Oil Level Gauge	Gasket	V#1500AC	1	A
144	Seal Oil System	Oil Level Gauge	Gasket	T#6520	1	A
145	Seal Oil System	Oil Level Gauge	Gland Packing	V#7137	2	A
146	Seal Oil System	Oil Level Gauge	Gland Packing	V#7137	1	A
147	Seal Oil System	Oil Level Gauge	Gasket	V#1500AC	1	A
148	Seal Oil System	Oil Level Ann.	O-Ring	P29	1	A
149	Seal Oil System	Oil Level Ann.	O-Ring	P16	1	A
150	Seal Oil System	Oil Level Ann.	O-Ring	G80	1	A
151	Seal Oil System	Oil Level Ann.	O-Ring	P8	1	A
152	Seal Oil System	Oil Level Ann.	O-Ring	P5	2	A
153	Gas System	Gas Valve(10K-40)	Disc	Daiflon	1	A
154	Gas System	Gas Valve(10K-40)	Gasket	T#9000	2	A
155	Gas System	Gas Valve(10K-40)	Pacing	T#2300	1	A
156	Gas System	Gas Valve(10K-50)	Disc	Daiflon	2	A
157	Gas System	Gas Valve(10K-50)	Gasket	T#9000	4	A
158	Gas System	Gas Valve(10K-50)	Pacing	T#2300	2	A
159	Gas System	Gas Valve(10K-16)	Disc	Daiflon	23	A
160	Gas System	Gas Valve(10K-15)	Gasket	T#9000	46	A
161	Gas System	Gas Valve(10K-15)	Pacing	T#2300	23	A
162	Gas System	Water Detector	O-Ring	P29	2	A
163	Gas System	Water Detector	O-Ring	G85	2	A
164	Gas System	Water Detector	O-Ring	G80	2	A
165	Gas System	Water Detector	O-Ring	P16	2	A
166	Gas System	Water Detector	O-Ring	P8	2	A
167	Gas System	Purity Meter	Asbestos Packing	1270X950Xt0.5	1	A
168	Gas System	Purity Meter	Bearing	6203ZZ	2	A
169	H2 Supply Unit	Pres.Reducing Valv	O-Ring	Fluoring Rubber P12	1	A
170	H2 Supply Unit	Pres.Reducing Valv	O-Ring	Fluoring Rubber P18	1	A
171	H2 Supply Unit	Pres.Reducing Valv	Gland Packing	Teflon	1	A
172	H2 Supply Unit	High Pres.Valve	Valve Kit	WFS10A	14	A
173	H2 Supply Unit	Relief Valve	Valve Kit	SBV10B	1	A
174	CO2 Supply Unit	Gas Valve(10K-40)	Disc	Daiflon	1	A
175	CO2 Supply Unit	Gas Valve(10K-40)	Gasket	T#9000	2	A
176	CO2 Supply Unit	Gas Valve(10K-40)	Packing	T#2300	1	A

電気計装部品価格 DF2.25調整

E + I 3.1Generator 4/6

SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Generator and auxiliaries)

No.	System 設備名稱	Equipment 設備名稱	Parts Name	Specification	Quantity	Rank
177	CO2 Supply Unit	High Pres. Valve	Valve Kit	WFL10A	1	A
178	CO2 Supply Unit	Relief Valve	Valve Kit	SBV10C	1	A
179	CO2 Supply Unit	Check Valve	Valve Kit	25LC	2	A
180	Purity Unit	Gas Valve 3/8B	Gland Packing	USE26PC Teflon	15	A
181	Water System	Water Valve(5)	Gland Packing	PH116	4	A
182	Water System	Water Valve(5)	Gasket	A#4948	4	A
183	Water System	Water Valve(5)	Gland Packing	PH116	4	A
184	Water System	Water Valve(5)	Gasket	A#4948	4	A
185	Water System	Water Valve(3)	Gland Packing	PH116	1	A
186	Water System	Water Valve(3)	Gasket	A#4948	1	A
187	Water System	Water Valve(3)	Gland Packing	PH116	1	A
188	Water System	Water Valve(3)	Gasket	A#4948	1	A
189	Water System	Water Valve(1 1/2)	Gland Packing	V#133	2	A
190	Water System	Water Valve(1 1/2)	Gasket	V#1500	2	A
191	Water System	Water Valve(1 1/2)	Gland Packing	V#133	2	A
192	Water System	Water Valve(1 1/2)	Gasket	V#1500	2	A
193	Water System	Water Valve(3/4)	Gland Packing	TH2921G	9	A
194	Water System	Water Valve(3/4)	Gasket	TH1804U	9	A
195	Water System	Water Valve(1)	Gland Packing	TH2921G	8	A
196	Water System	Water Valve(1)	Gasket	TH1804U	8	A
197	Water System	G.T.C Valve	Gasket	V#7590M	1	A
198	Water System	G.T.C Valve	Packing	PH4513S	1	A
199	Water System	G.T.C Valve	Gasket	V#7590M	1	A
200	Generator	Bearing	Bearing metal temp detect	TR-731, TSS-410	1	A
201	Generator	Bearing	Bearing metal temp detect	TR-731, TSS-410	1	A
202	Generator	Bearing	Bearing metal temp detect	TR-731, TSS-410	1	A
203	H2 Drier				1	A

SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Isolated Phase Busduct)

No.	System 設備名稱	Equipment 裝置名稱	Parts Name	Specification	Reference Drawing		Rank
					Quantity	Drawing No.	
1	Isolated Phase Bus	Main bus	Flexible cover	Rubber bellows	6 pcs.	HL71455	78kg A
2	Isolated Phase Bus	Tee-off bus	Flexible cover	Rubber bellows	6 pcs.	HL71456	48kg A

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CONSUMABLE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Generator Consumable)

No.	System 設備名称	Equipment 装置名称	Parts Name	Specification	Quantity	Reference Drawing Drawing No.	Rank
1	Generator	Generator	Liquid packing	Three Bond (No.1) No.1101 (200g. tube)	3		A
2	Generator	Generator	Liquid packing	Three Bond (No.2) No.1102 (200g. tube)	3		A
3	Generator	Generator	Liquid packing	Three Bond (No.3) No.1103 (200g. tube)	3		A
4	Generator	Generator	Pipe sealing tap	10m length	1		A
5	Generator	Generator	Fleon gas	40kg. bottle	1		A
6	Generator	Generator	Vinyl sheet	100m, Roll	2		A

SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Unit Transformer)

No.	System 設備名称	Equipment 装置名称	Parts Name	Specification	Quantity	Remarks	Rank
1	Unit transformer	De-energized tap changer	De-energized tap changer		1 set		A
2	Unit transformer	De-energized tap changer	Gasket		1 set		A
1	Unit transformer	De-energized tap changer	Insulation oil		800 Litter		A
2	Unit transformer	De-energized tap changer	Insulation tape and cotton tang		1 set		A
3	Unit transformer	De-energized tap changer	Bolts, nuts, washer and spring-washer		1 set		A
4	Unit transformer	De-energized tap changer	Welding rods and c-clamps (600cs)		1 set		A
5	Unit transformer	De-energized tap changer	Touch-up paint & brushes		1 set		A

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SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Turbine supervisory instrument)

No.	System 設備名称	Equipment 設備名称	Parts Name	Specification	Quantity	Weight(kg)	Rank
1	Turbine Supervisory Instruments タービン監視計器	Turbine Supervisory Instruments タービン監視計器	TURBINE SPEED DRAWER UNIT	TS-P5	2	20	A
2	Ditto.	Ditto.	ROTOR ECCENTRICITY DRAWER UNIT	TS-E5	2	20	A
3	Ditto.	Ditto.	ROTOR POSITION DRAWER UNIT	TS-S5	2	20	A
4	Ditto.	Ditto.	CASING EXPANSION DRAWER UNIT	TS-W5	2	20	A
5	Ditto.	Ditto.	ROTOR/CASING DIFF. EXP. DRAWER UNIT	TS-D5	2	20	A
6	Ditto.	Ditto.	GOV. VALVE POSITION DRAWER UNIT	TS-M5	2	20	A
7	Ditto.	Ditto.	BRG VIBRATION DRAWER UNIT	TS-V5	2	20	A
8	Ditto.	Ditto.	TURBINE SPEED PICK-UP	TS-P1	2	1	A
9	Ditto.	Ditto.	Ditto.	Ditto.	2	1	A
10	Ditto.	Ditto.	Ditto.	Ditto.	2	1	A
11	Ditto.	Ditto.	Ditto.	Ditto.	2	1	A
12	Ditto.	Ditto.	Ditto.	Ditto.	2	1	A
13	Ditto.	Ditto.	ROTOR ECCENTRICITY PICK-UP	TS-E1	2	2	A
14	Ditto.	Ditto.	ROTOR POSITION PICK-UP	TS-S13	2	2	A
15	Ditto.	Ditto.	CASING EXPANSION PICK-UP	TS-C1	2	2	A
16	Ditto.	Ditto.	ROTOR/CASING DIFF. EXP. PICK-UP	TS-D1	2	2	A
17	Ditto.	Ditto.	NO1 BEARING VIBRATION PICK-UP	TS-V1	2	2	A
18	Ditto.	Ditto.	NO2 BEARING VIBRATION PICK-UP	TS-V1	2	2	A
19	Ditto.	Ditto.	NO3 BEARING VIBRATION PICK-UP	TS-V1	2	2	A
20	Ditto.	Ditto.	NO4 BEARING VIBRATION PICK-UP	TS-V1	2	2	A
21	Ditto.	Ditto.	NO5 BEARING VIBRATION PICK-UP	TS-V1	2	2	A
22	Ditto.	Ditto.	NO6 BEARING VIBRATION PICK-UP	TS-V1	2	2	A

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SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Turbine supervisory instrument)

No.	System 設備名称	Equipment 装置名称	Parts Name	Specification	Quantity	Weight(kg)	Rank
23	Ditto.	Ditto.	NO7 BEARING VIBRATION PICK-UP	TS-V1	2	2	A
24	Ditto.	Ditto.	BRG VIBRATION & ROTOR ECCENTRICITY RECORDER	4.R1800 (12POINTS) ※1	2	10	A
25	Ditto.	Ditto.	DIFF. EXPANSION & CASING EXPANSION RECORDER	4.R1000 (3 PEN) ※2	2	6	A
26	Ditto.	Ditto.	TURBINE SPEED	S9042UT-1	2	1	A
28	Turbine Supervisory Instruments タービン監視計器	Turbine Supervisory Instruments タービン監視計器	VIBRATION PICK-UP SHOE	WHITE METAL	7	0.2	A
29	Ditto.	Ditto.	BRG VIBRATION DRAWER UNIT	AMP CARD	4	0.2	A
30	Ditto.	Ditto.	Ditto.	TEST CARD	1	0.2	A
31	Ditto.	Ditto.	ROTOR ECCENTRICITY DRAWER UNIT	AMP CARD	1	0.2	A
32	Ditto.	Ditto.	Ditto.	VOLUME RESISTANCE	2	0.2	A
33	Ditto.	Ditto.	ROTOR POSITION DRAWER UNIT	AMP CARD	1	0.2	A
34	Ditto.	Ditto.	Ditto.	VOLUME RESISTANCE	5	0.2	A
35	Ditto.	Ditto.	CASING EXPANSION DRAWER UNIT	AMP CARD	1	0.2	A
36	Ditto.	Ditto.	ROTOR/CASING DIFF. EXP. DRAWER UNIT	AMP CARD	1	0.2	A
37	Ditto.	Ditto.	ROTOR/CASING DIFF. EXP. DRAWER UNIT	VOLUME RESISTANCE	5	0.2	A
38	Ditto.	Ditto.	TURBINE SPEED DRAWER UNIT	F/DC2 CARD	1	0.2	A
39	Ditto.	Ditto.	Ditto.	COMP CARD	1	0.2	A
40	Ditto.	Ditto.	GOV. VALVE POSITION DRAWER UNIT	AMP CARD	1	0.2	A

SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Generator control and monitoring)

No.	System 設備名称	Equipment 装置名称	Parts Name	Specification	Quantity	Weight (kg)	Rank
1	H2 Gas System H2 ガスシステム	H2 Gas Control Panel H2 ガス制御盤	Safety Barrier	BARD-400-A	2	0.3	A
2	Ditto.	Ditto.	Ditto.	BARD-300-A	1	0.3	A
3	Ditto.	Ditto.	Distributor	SDBT-110-B/TB	1	0.3	A
4	Ditto.	Ditto.	RTD Distributor	STED-310-B/TB	2	1	A
5	Ditto.	Ditto.	Purity Monitor	MACTUS 211	2	1	A
6	Seal Oil System 密封油処理装置	Seal Oil Control Panel 密封油制御盤	Purity Indicator	LM-110	1	0.3	A
7	Turbine Safety System タービン保安装置	Turbine Limit Switch タービンリミットスイッチ	Limit Switch	MS-10K	1	3	A
8	Ditto.	Ditto.	Ditto.	MS-10K	1	3	A
9	Ditto.	Ditto.	Ditto.	MS-5K	1	2.5	A
10	Ditto.	Ditto.	Ditto.	MS-5K	1	2.5	A
11	Ditto.	Ditto.	Ditto.	MS-10K	1	3	A
12	Ditto.	Ditto.	Ditto.	MS-10K	1	3	A
13	Ditto.	Ditto.	Ditto.	MS-10K	1	3	A
14	Ditto.	Ditto.	Ditto.	MS-10K	1	3	A
15	Ditto.	Turbine Trip Solenoid タービントリップソレノイド	Solenoid	TS-1D	1	2	A
16	Central Control	EAP Control Panel	Discrepancy Switch	SK-C2K-R12	3	0.9	A
17	Central Control	Ditto.	Ditto.	SK-C2K-8	5	1.5	A
19	Central Control	Ditto.	Illuminate P.B	QAMT	150	4	A
					177	TOTAL	

SPARE PARTS LIST FOR OVERHAUL

PART : Electrical Equipment(Generator and auxiliaries)

No.	System 設備名称	Equipment 装置名称	Parts Name	Specification	Quantity	Reference Drawing		Rank
						Drawing No.	Weight(kg)	
1	Gas system ガス設備	Gas press./purit y monitoring unit	Generator Blower Diff. Press. Indicator	Model DG96-273 0~200 cmAq	2	DC96-273	4.3	A
2	Gas system ガス設備	Gas press./purit y monitoring unit	Generator Gas Press. Indicator	Model BG15-243 0~6 kg/cm2	2	BG15-243	1.6	A
3	Seal oil system 密封油処理設備	Seal oil set 密封油処理装 置	Vacuum Tank Vacuum Indicator	Model BE10-243E 0~760 mmHg	2	BE10-243E	0.8	A

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Parts List for Major Overhaul

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	部品仕様			図面 区番 (2-ユニット分)	Rank
				寸法 Dim	材料 Materials	供給数量 (2-ユニット分)		
1	HP-LH (3-TLP-310)		SOLENOID VALVE MSV EH CONVERTER ISOLATION VLV.	NPT 3/8	HPX8217 A24	1	03-EV-678	A
2	HP-RH (3-TLP-312)		SOLENOID VALVE GV EH CONVERTER ISOLATION VLV.	NPT 1/2	HT8211 D2	1	03-EV-687	A
3	RSV & ICV TERMINAL BOX2 (3-TLP-221)		SOLENOID VALVE ICV-OPC SOL. VLV. (1)	NPT 3/4	HT8211 B26	1	03-EV-690	A
4	RSV & ICV TERMINAL BOX1 (3-TLP-220)		SOLENOID VALVE ICV-OPC XCL. VLV. (2)	NPT 3/4	HT8211 B26	1	03-EV-691	A
5	B1-TERMINAL BOX (3-TLP-315)		SOLENOID VALVE GV-OPC SOL. VLV. (1)	NPT 3/4	HT8211 B26	1	03-EV-678	A
8	HP-LH (3-TLP-310)		SOLENOID VALVE TURBINE RESET SOL.	NPT 1/4	HT8345 E11	1	03-EV-741	A
11	HP-LH (3-TLP-310)		SOLENOID VALVE VACUUM RESET SOL.	NPT 1/4	HT8320 A20	1	03-EV-449	A
18	HP-LH (3-TLP-310)		SOLENOID VALVE TURBINE TRIP	-	TS-1D	1	03-EV-720	A
73	(H/C PANEL)		PRESSURE SWITCH A-BFP BRG. OIL PRESS (LOW TRIP)		SNS-C103Q	2	03-PSL-750A	A
76	(H/C PANEL)		PRESSURE SWITCH A-BFP BRG. OIL (AOP AUTO START)		SNS-C103Q	2	03-PSL-751A	A
87	T/G-GB (3- TLP-318)		PRESSURE SWITCH TURNING GEAR INTERLOCK	NPT 1/4	12NN-K45-M2-C1A	1	03-PSI-709	A
91	SPDT DC220V JOP (3-TLP- 222)		PRESSURE SWITCH TURNING MOTOR INTERLOCK (JOP)	NPT 1/4	9NN-K45-M2-C1A	1	03-PSI-718	A
93	SPDT DC220V		PRESSURE SWITCH AUTO STOP OIL LOW TRIP	NPT 1/4 SPDT DC220V	6NN-K5-M2-C1A	1	03-PSL-671	A
95			PRESSURE SWITCH EMERGENCY TRIP OIL	NPT 1/4 SPDT DC220V	6NN-K5-M2-C1A	1	03-PSL-674	A
114	AC115V 50Hz (UIP)		RECORDER BRG. METAL TEMP. RECORDER		μRI80 4177-100	2	03-TR-731	A
118	12POINTS AC115V 50Hz (UCD) 2PEN		RECORDER TURBINE SPEED VACUUM RECORDER		μRI00 4152-111	1	03-WR-449	A
119	AC115V 50Hz (UIP) 6POINTS		RECORDER TURBINE EXTRACTION REC		μRI00 4156-100	1	03-PR-501	A
169			THERMO COUPLE MSV INLET STEAM TEMP.		X	1	03-TE-410	A

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Parts List for Major Overhaul

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	部品仕様			図面 図番 (2ユニット分)	Rank
				寸法 Dim	材料 Materials	供給数量 (2ユニット分)		
170	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE FIRST STAGE OUTLET STEAM TEMP.		K	2	03-TE-413	A
171	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE LP CYLINDER EXHAUST (A) STEAM TEMP.		K	2	03-TE-448	A
172	T/G-CB (3-TLP-318)		THERMO COUPLE LP CYLINDER EXHAUST (B) STEAM TEMP.		K	2	03-TE-449	A
173	A-TERMINAL BOX (3-TLP-314)		THERMO COUPLE STEAM CHEST INNER METAL TEMP.		K	2	03-TE-422	A
174	A-TERMINAL BOX (3-TLP-314)		THERMO COUPLE STEAM CHEST OUTER METAL TEMP.		K	2	03-TE-423	A
175	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE FIRST STAGE OUTLET METAL TEMP.		K	2	03-TE-424	A
176	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE HP CYLINDER TOP METAL TEMP.		K	2	03-TE-426	A
178	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE HP CYLINDER FLANGE METAL (INSIDE) (HP)		K	2	03-TE-428-1	A
179	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE HP CYLINDER BOLT METAL (HP)		K	2	03-TE-429	A
180	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE HP CYLINDER FLANGE METAL (INSIDE) (IP)		K	2	03-TE-430	A
181	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE HP CYLINDER BOLT METAL (IP)		K	2	03-TE-431	A
182	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE HP CYLINDER FLANGE METAL (OUTSIDE) (HP)		K	2	03-TE-428-2	A
216	HP-RH (3-TLP-312)		THERMO COUPLE NO. 1 BRG. METAL TEMP. (FRONT)		K	1	03-TE-731-1	A
217	HP-RH (3-TLP-312)		THERMO COUPLE NO. 1 BRG. METAL TEMP. (REAR)		K	1	03-TE-731-2	A
218	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE NO. 2 BRG. METAL TEMP. (FRONT)		K	1	03-TE-732-1	A
219	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE NO. 2 BRG. METAL TEMP. (REAR)		K	1	03-TE-732-2	A

Parts List for Major Overhaul

番号 No.	設備名称 Device	装置名称 Equipment	部品名称 Parts	部品仕様			図面 図番 (2-ユニット分)	Rank
				寸法 Dim	材料 Materials	供給数量 (2-ユニット分)		
220	B2-TERMINAL BOX (3-TLP-316)		THERMO COUPLE NO. 3 BRG. METAL TEMP.		K	1	03-TE-733	A
221	T/G-GB (3-TLP-318)		THERMO COUPLE NO. 4 BRG METAL TEMP.		K	1	03-TE-734	A
222	HP-RH (3-TLP-312)		THERMO COUPLE THRUST BRG. METAL TEMP. (FRONT)		K	2	03-TE-738-1	A
223	HP-RH (3-TLP-312)		THERMO COUPLE THRUST BRG. METAL TEMP. (REAR)		K	2	03-TE-739-1	A
224	HP-RH (3-TLP-312)		THERMO COUPLE THRUST BRG. METAL TEMP. (FRONT)		K	2	03-TE-738-2	A
225	HP-RH (3-TLP-312)		THERMO COUPLE THRUST BRG. METAL TEMP. (REAR)		K	2	03-TE-739-2	A
226			THERMO COUPLE A-BFBP BEARING TEMP.		K	2	03-TE-750A	A
229			THERMO COUPLE A-BFP H/C NO. 1 RADIAL BRG. TEMP.		K	1	03-TE-751A	A
232			THERMO COUPLE A-BFP H/C NO. 2 RADIAL BRG. TEMP.		K	1	03-TE-752A	A
235			THERMO COUPLE A-BFP H/C NO. 1 THRUST BRG. TEMP.		K	1	03-TE-753A	A
238			THERMO COUPLE A-BFP H/C NO. 3 RAIAL BRG. TEMP.		K	1	03-TE-754A	A
241			THERMO COUPLE A-BFP H/C NO. 4 RADIAL BRG. TEMP.		K	1	03-TE-755A	A
244			THERMO COUPLE A-BFP H/C NO. 5 RADIAL BRG. TEMP.		K	1	03-TE-756A	A
247			THERMO COUPLE A-BFP H/C NO. 2 THRUST BRG. TEMP.		K	1	03-TE-757A	A
250			THERMO COUPLE A-BFP H/C NO. 6 RADIAL BRG. TEMP.		K	1	03-TE-758A	A
253			THERMO COUPLE A-BFP NO. 1 RADIAL BRG. TEMP.		K	1	03-TE-759A	A
256			THERMO COUPLE A-BFP NO. 2 RADIAL BRG. TEMP.		K	1	03-TE-760A	A
259			THERMO COUPLE A-BFP THRUST BRG. TEMP.		K	1	03-TE-761A	A
305	HP-RH (3-TLP-312)		LEVEL SWITCH MASTER RESET POSITION		BZ66-2RQ8-J	2	03-ZS-741	A
306	C-TERMINAL BOX (3-TLP-317)		LEVEL SWITCH TURNING GEAR ENGAGE		ILS1-J	2	03-ZS-742	A
307	C-TERMINAL BOX (3-TLP-317)		LEVEL SWITCH TURNING GEAR DISENGAGE		ILS1-J	2	03-ZS-743	A
308	HP-LH (3-TLP-310)		LEVEL SWITCH TEST LEVER TEST POSITION		BZ66-2RQ8-J	2	03-ZS-745	A

種氣計装部品価格 DF2.25調整

6-5 Economic Effects by Gas Air Heater

Economical effects replaced by new heating element at gas-air heater

ITEM	NOW(1998y)	AFTER OVERHAUL	diff amount	
Efficiency	0.33	0.3564		
Kcal/kwh	2606.060606	2413.01908		
Fuel(kcal/L..)	9800	9800		
kwh/1 L.. Fuel	3.760465116	4.061302326		
Fuel cost(¥en/L..)	10.8	10.8		
Fuel cost(¥en/kilo liter):CIF	10800	10800		
¥en/kwh	2.871985158	2.659245516		
Mean gen.kwh during 4years	700,000,000	700,000,000	1uint	2units around 300million ¥en
Ann.fuel cost(million¥en)	2,010	1,861	149	
Max. gen.kwh during 4years	1,000,000,000	1,000,000,000		
Ann.fuel cost(million¥en)	2,872	2,659	213	
Min. gen.kwh during 4years	500,000,000	500,000,000		
Ann.fuel cost(million¥en)	1,436	1,330	106	

4years

1994y-1997y

Fuel cost at 1998y, 1 barrel(158.9liter)=14us\$, 1kilo liter=10,800¥en, 1us\$=122.60¥en

Gen.kwh= 3 & 4 units generation

Economical merits reducing FOR and repowering(170MW)

ITEM	NOW(1998y)	AFTER MAJOR OVER-HAUL		REMARK
Gen. Output(MW)	160	170	170	
Ann.availability				
FOR	4.5%	3.0%	1.0%	Maint'=maintnance
Maint' outage	2.3%	2.3%	2.3%	
Planned maint' outage	8.6%	8.6%	8.6%	
Balanced stop	0.2%	0.2%	0.2%	
sum	15.6%	14.1%	12.1%	
100-sum	84.4%	85.9%	87.9%	:Ann.availability
Max.day generation (kwh)	7680000	8160000	8160000	:24*(160 or 170)*2*1000(kwh)
Mean day generation rate				
2hour peak	0.40686275	0.40686275	0.40686275	=(2*1+22*60/170)/24
4hour peak	0.46078431	0.46078431	0.46078431	=(4*1+20*60/170)/24
Mean day generation				
2hour peak	3124705.88	3320000	3320000	
4hour peak	3538823.53	3760000	3760000	
Ann.gen.=day gen.*(Ann.availability)*365				
2hour peak	962596894	1040936200	1065172200	
4hour peak	1090169976	1178891600	1206339600	
Ann. Difference(kwh)				:Increased generation(kwh) by improvingg FOR
2hour peak	0	78339305.9	102575306	
4hour peak	0	88721623.5	116169624	
Ann. Gen. Difference by 170MW				:Increased generation(kwh) by improvingg rated
2hour peak	0	10,411	13,321	
4hour peak	0	11,790	15,087	
Equivalent merit evaluated by construction cost(700\$/kw)				:Construction cost: 84 (Kilo yen/kw) 700\$/KW*120(yen)/ 1000(kilo yen/kw)
2hour peak	0	874,504	1,118,998	
4hour peak	0	990,402	1,267,298	
Equivalent merit evaluated by construction cost(700\$/kw), no repowering(160MW)				
2hour peak	0	190,974	435,468	
4hour peak	0	216,284	493,181	

FOR(Forced Outage Rate)=(Forced outage hours of the period)/(Period hours)

SF(Service factor)=(Service hours)/(Period hours)

Construction cost 700\$/kw=Total project cost including interest and headquarter's cost
not including desox and denox system.

JICA