

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
1	0001	31631611762-00	HALB	F30	DEAERATOR HEATER ASSLY.					
		1.000	EA	47,784.000			31631611762-00		00	
					1.000				13.04.2015	
GROUP 1 TO 4, WEIGHT OF TEST COUPON					PLATES: 709 Kgs.					
2	0001	31631611753-00A	HALB	E	SHELL ASSLY.					
		1.000	EA	28,602.000			31631611753-00		00	
					1.000		x		13.04.2015	
GROUP 1 TO 4										
3	0001	41631613234-01	HALB	E	SHELL SEGMENT					
		3.000	EA	5,217.100			41631613234-01		02	
					1.000		x		25.04.2014	
4	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
RECTANGLE :2,500.000 X 9,525.000										
MM	3.000	15,716.25	KG	5,238.750			NA			
	HY10470	09	SA516 GR70	A2					25.04.2014	
REQUIRED PLATE LEGTH 6790+2723					MA BY QC & IBR					
4	0099	41631000617-09A	HALB	E	TEST COUPON FOR 28MM THK PLATE					
		12.000	EA	21.540			41631000617-09		00	
			SA516 GR.70		1.000		x		15.04.2015	
TO BE CUT FROM THE SAME PLATE										
5	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	12.000	258.720	KG	21.560			NA			
	HY10470	09	SA516 GR70	A2					19.05.2015	
3	0002	41631613234-02	HALB	E	SHELL SEGMENT					
		2.000	EA	2,996.160			41631613234-02		02	
					1.000		x		25.04.2014	

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 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no			Drg Rev
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
RECTANGLE :1,440.000 X 9,525.000										
MM	2.000	6,035.040	KG	3,017.520			NA			
HY10470		09	SA516 GR70		A2				18.04.2015	
REQUIRED PLATE LENGTH 6790+2723					MA BY QC & IBR					
4	0099	41631000617-09A	HALB	E	TEST COUPON FOR 28MM THK PLATE					
		8.000	EA	21.540			41631000617-09			00
			SA516 GR.70		1.000		x		15.04.2015	
TO BE CUT FROM THE SAME PLATE										
5	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	8.000	172.480	KG	21.560			NA			
HY10470		09	SA516 GR70		A2				19.05.2015	
3	0003	41631613235-00A	HALB	E	DISHED END ID 3000X 28MM MIN. THK. SF=75					
		2.000	EA	2,751.000			41631613235-00			00
					1.000		x		25.04.2014	
FOR MANUFACTURE REF. DRG. 41631000608										
4	0001	HY1041870175	ZROH	F70	PLT BQ 32 MM (SA516 GR70)					
RECTANGLE :2,220.000 X 3,750.000										
MM	2.000	4,182.480	KG	2,091.240						
HY10470		09	SA516GR70		A2				17.04.2015	
MA BY QC & IBR										
4	0002	HY1041870175	ZROH	F70	PLT BQ 32 MM (SA516 GR70)					
RECTANGLE :1,530.000 X 3,750.000										
MM	2.000	2,882.520	KG	1,441.260						
HY10470		09	SA516GR70		A2				17.04.2015	
MA BY QC & IBR										
4	0099	41631000617-10A	HALB	E	TEST COUPON FOR 32MM THK PLATE					
		4.000	EA	24.620			41631000617-10			00
			SA516 GR.70		1.000		x		15.04.2015	
TO BE CUT FROM THE SAME PLATE										

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H.Material **BOM ST** **Plant** **Header Desc** **Base Qty(EA)**
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) **Created by** **Created on** **Changed on** **Drq no** **Drq Rev**
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no		Drq Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
5	0001	HY1041870175	ZROH	F70	PLT BQ 32 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	4.000	98.472	KG	24.618						
HY10470		09	SA516GR70		A2				19.05.2015	
4	0100									
		2.000	ST							
										17.04.2015
FOR PLATE WELDING REFER DRG. 41631000618										
3	0004	31631611752-00	HALB	F30	HEATER SUPPORT ASSLY.					
		2.000	EA	673.140			31631611752-00		00	
					1.000	x		25.04.2014		
4	0001	31631611752-01	HALB	E	PAD					
		2.000	EA	234.830			31631611752-01		00	
					1.000	x		25.04.2014		
5	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
RECTANGLE :300.000 X 3,560.000										
MM	2.000	469.920	KG	234.960			NA			
HY10470		09	SA516 GR70		A3				25.04.2014	
										MA BY QC & LLOYDS
4	0002	31631611752-02	HALB	E	VERTICAL RIB					
		2.000	EA	234.720			31631611752-02		00	
					1.000	x		25.04.2014		
5	0001	AA1011819171	ZROH	F70	PLATE 32 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :1,045.000 X 2,705.000										
MM	2.000	1,420.146	KG	710.073						
AA10119		15			A1				25.04.2014	
										MA BY QC

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 T31631611762-00 03 P006 TOTAL DEAEERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
4	0003	31631611752-03	HALB	E	BASE PLATE				
		2.000	EA	139.430		31631611752-03		00	
					1.000		x	25.04.2014	
5	0001	AA1011819180	ZROH	F70	PLATE 36 IS2062 GRE250(FE410W) QLTY-B				
RECTANGLE :250.000 X 2,000.000									
MM	2.000	282.600	KG	141.300					
AA10119		15		A1				25.04.2014	
					MA BY QC				
4	0006	AA1011819155	ZROH	F70	PLATE 25 IS2062 GRE250(FE410W) QLTY-B				
RECTANGLE :109.000 X 290.000									
MM	8.000	49.624	KG	6.203					
AA10119		15		A1				25.04.2014	
RIB					MA BY QC				
4	0007	AA1011819155	ZROH	F70	PLATE 25 IS2062 GRE250(FE410W) QLTY-B				
RECTANGLE :109.000 X 465.000									
MM	8.000	79.576	KG	9.947					
AA10119		15		A1				25.04.2014	
RIB					MA BY QC				
3	0100	D21631000014			WELD DETAILS AND WPS NOS. FOR DEAEERATOR				
		1.000	ST						
		03						25.04.2014	
2	0002	11631611519-00	HALB	E	NOZZLE ASSLY.				
		1.000	EA	7,385.000		11631611519-00		01	
					1.000		x	13.04.2015	
GROUP 1 TO 28									
3	0001	11631611519-21	HALB	E	EQUALIZER ASSLY. 38"				
		2.000	EA	894.860		11631611519-21		01	
					1.000		x	25.04.2014	
GROUP 1 TO 3, C1, FOR NOZZLE CONFIG.REF.					VAR 01 OF DRG. 11631011178				

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Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0001	41631613204-05	HALB	E	PIPE					
		2.000	EA	190.350			41631613204-05		01	
					1.000		x		25.04.2014	
5	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)					
RECTANGLE :600.000 X 3,000.000										
MM	2.000	395.640	KG	197.820						
HY10470		09	SA516GR70	A2					11.11.2011	
					MA BY QC & IBR					
5	0099	41631000617-03A	HALB	E	TEST COUPON FOR 14MM THK PLATE					
		4.000	EA	10.770			41631000617-03		00	
			SA516 GR.70		1.000		x		15.04.2015	
TO BE CUT FROM THE SAME PLATE										
6	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	4.000	43.080	KG	10.770						
HY10470		09	SA516GR70	A2					19.05.2015	
4	0002	11631611519-21A	HALB	E	RF. PAD DIA. 981/1500					
		2.000	EA	308.140			11631611519-21		01	
					1.000		x		25.04.2014	
5	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
SQUARE = 1,520.000 X 1,520.000										
MM	2.000	1,016.576	KG	508.288			NA			
HY10470		09	SA516 GR70	A2					13.04.2015	
					MA BY QC & IBR					
4	0003	HY1041870256	ZROH	F70	PLT BQ 80 MM					
SQUARE = 1,030.000 X 1,030.000										
MM	2.000	1,332.490	KG	666.245						
HY10470		09		A2					15.04.2015	
BLANKING PLATE, DRILL 3/4" NPT HOLE, CUT					TO DIA. 1020,MA BY QC & IBR					

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 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no			Drg Rev	
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
3	0002	11631611519-22	HALB	E	DOWN COMMER ASSLY. 38"					
		2.000	EA	947.380		11631611519-22			01	
					1.000		x		25.04.2014	
GROUP 1 TO 3, C2, FOR NOZZLE CONFIG.REF.					VAR 02 OF DRG. 11631011178					
4	0001	41631613204-04	HALB	E	PIPE					
		2.000	EA	124.680		41631613204-04			01	
					1.000		x		25.04.2014	
5	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)					
RECTANGLE :400.000 X 3,000.000										
MM	2.000	263.760	KG	131.880						
HY10470		09	SA516GR70		A2					11.11.2011
					MA BY QC & IBR					
5	0099	41631000617-03A	HALB	E	TEST COUPON FOR 14MM THK PLATE					
		4.000	EA	10.770		41631000617-03			00	
			SA516 GR.70		1.000		x		15.04.2015	
TO BE CUT FROM THE SAME PLATE										
6	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	4.000	43.080	KG	10.770						
HY10470		09	SA516GR70		A2					19.05.2015
4	0002	11631611519-22A	HALB	E	RF. PAD DIA. 981/1500					
		2.000	EA	308.140		11631611519-22			01	
					1.000		x		25.04.2014	
5	0001	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
SQUARE = 1,520.000 X 1,520.000										
MM	2.000	1,016.576	KG	508.288		NA				
HY10470		09	SA516 GR70		A2					13.04.2015
					MA BY QC & IBR					

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Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
4	0003	HY1041870256	ZROH	F70	PLT BQ 80 MM				
SQUARE = 1,030.000 X 1,030.000									
MM	2.000	1,332.490	KG	666.245					
HY10470		09	A2						15.04.2015
BLANKING PLATE, DRILL 3/4" NPT HOLE, CUT					TO DIA. 1020				
3	0003	11631611519-05A	HALB	E	SPH DISH. DIA. 950/626 MIN. THK. 28MM				
		1.000	EA	122.200		11631611519-05		01	
					1.000		x		25.04.2014
FOR H5, FOR MANUFACTURE REF DRG.					41631000608				
4	0001	HY1041870175	ZROH	F70	PLT BQ 32 MM (SA516 GR70)				
SQUARE = 1,295.000 X 1,295.000									
MM	1.000	421.269	KG	421.269					
HY10470		09	SA516GR70		A2			16.04.2015	
					MA BY QC & IBR				
3	0004	31631111588-08E	HALB	E	MAN HOLE ASSLY. (24" 300# SORF)				
		1.000	EA	696.310		31631111588-08		00	
					1.000		x		25.04.2014
GROUP 1 TO 11, H5, REFER VAR. 06 OF DRG.					11631611519				
4	0001	41631114023-05	HALB	E	PIPE				
		1.000	EA	99.410		41631114023-05		01	
			SA516 GR70		1.000		x		30.01.2012
					MA BY QC & CIB				
5	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)				
RECTANGLE :590.000 X 1,885.000									
MM	1.000	122.225	KG	122.225					
HY10470		09	SA516GR70		A2			15.02.2012	
					MA BY QC & CIB				
5	0099	41631000617-03A	HALB	E	TEST COUPON FOR 14MM THK PLATE				
		2.000	EA	10.770		41631000617-03		00	
			SA516 GR.70		1.000		x		15.04.2015
TO BE CUT FROM THE SAME PLATE									

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Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
6	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	2.000	21.540	KG	10.770						
HY10470		09	SA516GR70		A2					19.05.2015
4	0002	AA7246106200	ZSUD	F	FLANGE CS 24" ANSI 300 SORF					
		1.000	EA	216.000						
AA7246106-00		03			A2					15.02.2012
					MA BY QC					
4	0003	HY7240365166	ZSUD	F	NAB MSW GASKET 24" #300 RF GRAPHITE					
		1.000	EA	0.500						
HY7240365		01	GRAPHITE							30.01.2012
4	0004	HY7142299304	ZSUD	F70	STUD 2 NUTS M36X3X240					
		24.000	EA	2.891			NA			
HY7142299-04		04	ASTM A193B7/194 2H							30.01.2012
4	0005	HY7246772200	ZSUD	F	CS BL FLANGE 24" # 300 RF					
		1.000	EA	342.000						
HY7246772		02	A105		A2					15.02.2012
					MA BY QC & CIB					
4	0006	31631111588-08A	HALB	E	HANDLE					
		1.000	EA	0.800			31631111588-08		00	
					1.000		x			30.01.2012
5	0001	HY1010299107	ZROH	F70	RND CS 20					
LENGTH =340.000										
MM	1.000	0.836	KG	0.836						
HY10199		03	CS GR15 C8							30.01.2012

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Lvl	Pos No	Item Material No	Mat type	SPK	Description					
4	0007	31631111588-08B	HALB	E	ROD					
		1.000	EA	4.550		31631111588-08		00		
				1.000		x		30.01.2012		
Engineering Remarks					Technology Remarks					
5	0001	AA1020208155	ZROH	F70	ROUND 36 HOTRLD/FORGD(NORMZ) IS1570GR40C8					
LENGTH =580.000										
MM	1.000	4.634	KG	4.634						
AA10208		07							30.01.2012	
4	0008	31631111588-08C	HALB	E	INNER HINGE					
		2.000	EA	3.280		31631111588-08		00		
				1.000		x		30.01.2012		
Engineering Remarks					Technology Remarks					
5	0001	AA1011819171	ZROH	F70	PLATE 32 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :110.000 X 175.000										
MM	2.000	9.672	KG	4.836						
AA10119		15			A1				30.01.2012	
Engineering Remarks					MA BY QC					
4	0009	31631111588-08D	HALB	E	OUTER HINGE					
		2.000	EA	3.830		31631111588-08		00		
				1.000		x		30.01.2012		
Engineering Remarks					Technology Remarks					
5	0001	AA1011819171	ZROH	F70	PLATE 32 IS2062 GRE250(FE410W) QLTY-B					
RECTANGLE :110.000 X 195.000										
MM	2.000	10.776	KG	5.388						
AA10119		15			A1				30.01.2012	
Engineering Remarks					MA BY QC					
4	0010	HY7161096200	ZSUD	F70	WASHER MCD GAL 37-ST					
		4.000	EA	0.089		NA				
HY7161096-00-00-		01	IS2016 GAL ST						30.01.2012	
Engineering Remarks					Technology Remarks					

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 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
4	0011	HY7171041859	ZSUD	F70	PIN TAPER 6X60				
		1.000	EA	0.016		NA			
AA7171041		05	IS 6688 TYPE A						30.01.2012
3	0005	11631611519-03	HALB	E	SRV NOZZLE ASSLY. 8"				
		2.000	EA	111.530		11631611519-03		01	
					1.000		x		25.04.2014
GROUP 1 TO 6, H3, FOR NOZZLE CONFIG.REF.					VAR 08 OF DRG. 11631011178				
4	0001	AA1049355601	ZROH	F70	PIPE(SMLS) 219.1X12.7 CS SA106 GR B				
LENGTH =260.000									
MM	2.000	0.520	M	16.806					
AA10455		09		A2					25.04.2014
					MA BY QC & IBR				
4	0002	11631611519-03A	HALB	E	RF. PAD DIA. 235/400				
		2.000	EA	19.940		11631611519-03		01	
					1.000		x		25.04.2014
5	0001								
		2.000	ST						
				A2					25.04.2014
RF. PAD DIA. 235/400, MATL. COVERED IN					11631611519-21A ,MA BY QC & IBR				
4	0003	AA7246106138	ZSUD	F70	FLANGE SOW CS 8" CL 300 RAISED FACE				
		2.000	EA	25.500		NA			
AA7246106-03		03	ANSI B 16.5		A2				25.04.2014
					MA BY QC & IBR				
4	0004	HY7240365093	ZSUD	F	NAB M.S.W. GASKET SIZE 8" #300 GRPH				
		2.000	EA	0.200					
HY7240365		01	GRAPHITE						25.04.2014

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no			Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0005	HY7246772138	ZSUD	F70	FLANGE BLIND CS 8" CL 300 RAISED FACE					
		2.000	EA	35.040		NA				
		HY7246772-02	02	ANSI:B16.5		A2				25.04.2014
					MA BY QC & IBR					
4	0006	HY7142198389	ZSUD	F70	STUD 2 NUTS M22X170					
		24.000	EA	0.758		NA				
		HY7142198-04	04	ASTM A193B7/194 2H						25.04.2014
					MA BY QC & IBR					
3	0006	11631611519-04	HALB	E	VENT CONN. 2"					
		6.000	EA	4.700		11631611519-04			01	
					1.000		x		25.04.2014	
					H4					
4	0001	HE9691002060	ZSUD	F	SW COUPLING ANSI 6000# SS 2"X75					
		6.000	EA	3.500						
		HE91002V06		HE91002V06		A2				25.04.2014
					MA BY QC & IBR					
4	0002	HE9791003068	ZSUD	F	1 1/2" BAR PLUG CS					
		6.000	EA	1.200						
		HE91003	03	SA105		A1				25.04.2014
					MA BY QC					
3	0007	11631611519-02	HALB	E	CONDENSATE INLET CONN. 16"					
		2.000	EA	126.180		11631611519-02			01	
					1.000		x		25.04.2014	
GROUP 1 TO 3, H2, FOR NOZZLE CONFIG.REF.					VAR 01 OF DRG. 11631011178					
4	0001	41631613204-02	HALB	E	PIPE					
		2.000	EA	44.410		41631613204-02			01	
					1.000		x		25.04.2014	

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
5	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)					
RECTANGLE :345.000 X 1,245.000										
MM	2.000	94.410	KG	47.205						
HY10470		09	SA516GR70		A2				11.11.2011	
					MA BY QC & IBR					
5	0099	41631000617-03A	HALB	E	TEST COUPON FOR 14MM THK PLATE					
		4.000	EA	10.770			41631000617-03		00	
			SA516 GR.70			1.000		x	15.04.2015	
TO BE CUT FROM THE SAME PLATE										
6	0001	HY1041870108	ZROH	F70	PLT BQ 14 MM (SA516 GR70)					
RECTANGLE :280.000 X 350.000										
MM	4.000	43.080	KG	10.770						
HY10470		09	SA516GR70		A2				19.05.2015	
4	0002	11631611519-02A	HALB	E	RF. PAD DIA. 422/600					
		2.000	EA	34.620			11631611519-02		01	
					1.000		x	25.04.2014		
5	0001									
		2.000	ST							
					A2				25.04.2014	
RF. PAD DIA. 422/600, MATL. COVERED IN					11631611519-22A ,MA BY QC & IBR					
4	0003	HY1041870183	ZROH	F70	PLT BQ 36 (SA516 GR70)					
SQUARE = 470.000 X 470.000										
MM	2.000	124.852	KG	62.426						
HY10470		09	SA516GR70		A2				15.04.2015	
BLANKING PLATE, DRILL 1/2" NPT HOLE, CUT					TO DIA. 460,MA BY QC & IBR					
3	0008	11631611519-01	HALB	E	STEAM INLET CONN. 38"					
		1.000	EA	1,139.060			11631611519-01		01	
					1.000		x	25.04.2014		
GROUP 1 TO 3, H1, FOR NOZZLE CONFIG.REF.					VAR 01 OF DRG. 11631011178					

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0001	41631613204-01	HALB	E	PIPE					
		1.000	EA	163.340			41631613204-01		01	
					1.000		x		25.04.2014	
5	0001	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :450.000 X 2,995.000										
MM	1.000	169.277	KG	169.277						
HY10470		09	SA516/70	A2					11.11.2011	
					MA BY QC & IBR					
5	0099	41631000617-04A	HALB	E	TEST COUPON FOR 16MM THK PLATE					
		2.000	EA	12.310			41631000617-04		00	
			SA516 GR.70		1.000		x		15.04.2015	
TO BE CUT FROM THE SAME PLATE										
6	0001	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :280.000 X 350.000										
MM	2.000	24.618	KG	12.309						
HY10470		09	SA516/70	A2					19.05.2015	
4	0002	11631611519-01A	HALB	E	SPH DISH. DIA. 1700/981 MIN. THK. 28MM					
		1.000	EA	461.300			11631611519-01		01	
					1.000		x		25.04.2014	
FOR MANUFACTURE REF. DRG. 41631000608										
5	0001	HY1041870175	ZROH	F70	PLT BQ 32 MM (SA516 GR70)					
SQUARE = 2,300.000 X 2,300.000										
MM	1.000	1,328.848	KG	1,328.848						
HY10470		09	SA516GR70	A2					25.04.2014	
					MA BY QC & IBR					
4	0003	HY1041870256	ZROH	F70	PLT BQ 80 MM					
SQUARE = 1,030.000 X 1,030.000										
MM	1.000	666.245	KG	666.245						
HY10470		09		A2					15.04.2015	
BLANKING PLATE, DRILL 1/2" NPT HOLE, CUT					TO DIA. 1020,MA BY QC & IBR					

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
3	0009	11631611519-07	HALB	E	HPH DRAIN CONN. 12"					
		2.000	EA	141.360			11631611519-07		01	
					1.000		x		25.04.2014	
GROUP 1 TO 5, H7, FOR NOZZLE CONFIG.REF.					VAR 10 OF DRG. 11631011178					
4	0001	AA1049355768	ZROH	F70	PIPE(SMLS) 323.9X 12.7 CS SA106 GR B					
LENGTH =520.000										
MM	2.000	1.040	M	50.684						
	AA10455	09		A2					25.04.2014	
					MA BY QC & IBR					
4	0002	11631611519-07A	HALB	E	SPH DISH. DIA. 340/500 MIN. THK. 28MM					
		2.000	EA	32.160			11631611519-07		01	
					1.000		x		25.04.2014	
FOR MANUFACTURE REF. DRG. 41631000608										
5	0001	HY1041870175	ZROH	F70	PLT BQ 32 MM (SA516 GR70)					
SQUARE = 675.000 X 675.000										
MM	2.000	228.906	KG	114.453						
	HY10470	09	SA516GR70	A2					25.04.2014	
					MA BY QC & IBR					
4	0003	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
SQUARE = 385.000 X 385.000										
MM	2.000	65.220	KG	32.610			NA			
	HY10470	09	SA516 GR70	A2					15.04.2015	
BLANKING PLATE, CUT TO DIA. 375					MA BY QC & IBR					
4	0004	41631612906-00	HALB	F30	DISPERSER PIPE SS 12"					
		2.000	EA	27.370			41631612906-00		00	
					1.000		x		25.04.2014	
5	0001	HY1071886070	ZROH	F70	PLT SS 10 TP304L					
RECTANGLE :460.000 X 1,000.000										
MM	2.000	73.600	KG	36.800						
	HY10786	00		A1					02.09.2010	
					MA BY QC					

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
4	0005	HY1071886096	ZROH	F70	PLT SS 12 TP304L					
SQUARE = 385.000 X 385.000										
MM	2.000	28.460	KG	14.230						
HY10786		00			A2					15.04.2015
END COVER, CUT TO DIA. 375					MA BY QC & IBR					
3	0010	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :250.000 X 527.000										
MM	4.000	66.192	KG	16.548						
HY10470		09	SA516/70		A2					25.04.2014
VORTEX PLATE, FOR C2					MA BY QC & IBR					
3	0010	D11631011178			NOZZLE DETAIL ASSLY					
		1.000	ST							
		00								15.04.2015
3	0011	41631613194-00	HALB	F30	VORTEX PLATE					
		2.000	EA	29.760			41631613194-00		00	
					1.000	x				25.04.2014
FOR C2										
4	0001	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :250.000 X 1,070.000										
MM	2.000	67.196	KG	33.598						
HY10470		09	SA516/70		A1					02.09.2010
					MA BY QC					
3	0012	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
SQUARE = 1,080.000 X 1,080.000										
MM	2.000	293.000	KG	146.500						
HY10470		09	SA516/70		A1					15.04.2015
PLATE, FOR C1, CUT TO OD 1070					MA BY QC					
3	0013	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :50.000 X 325.000										
MM	8.000	16.328	KG	2.041						
HY10470		09	SA516/70		A1					25.04.2014
RIB, FOR C1					MA BY QC					

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
3	0014	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :50.000 X 965.000										
MM	2.000	12.120	KG	6.060						
HY10470		09	SA516/70	A1					25.04.2014	
STIFFENER, FOR C1					MA BY QC					
3	0015	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :50.000 X 475.000										
MM	4.000	11.932	KG	2.983						
HY10470		09	SA516/70	A1					25.04.2014	
STIFFENER, FOR C1					MA BY QC					
3	0016	11631611519-06	HALB	E	SPARE CONN. 12"					
RECTANGLE :50.000 X 475.000										
		1.000	EA	81.370			11631611519-06		01	
					1.000		x		25.04.2014	
GROUP 1 TO 3, H6, FOR NOZZLE CONFIG.REF.					VAR 01 OF DRG. 11631011178					
4	0001	AA1049355768	ZROH	F70	PIPE(SMLS) 323.9X 12.7 CS SA106 GR B					
LENGTH =340.000										
MM	1.000	0.340	M	33.140						
AA10455		09		A2					25.04.2014	
					MA BY QC & IBR					
4	0002	11631611519-06A	HALB	E	RF. PAD DIA. 340/500					
RECTANGLE :50.000 X 475.000										
		1.000	EA	25.570			11631611519-06		01	
					1.000		x		25.04.2014	
5	0001									
RECTANGLE :50.000 X 475.000										
		1.000	ST							
				A2					25.04.2014	
RF. PAD DIA. 340/500, MATL. COVERED IN					11631611519-21A,MA BY QC & CIB					
4	0004	HY1041870167	ZROH	F70	PLT BQ 28 MM (SA516 GR70)					
SQUARE = 385.000 X 385.000										
MM	1.000	32.610	KG	32.610			NA			
HY10470		09	SA516 GR70	A2					15.04.2015	
BLANKING PLATE, CUT TO DIA. 375					MA BY QC & IBR					

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no			Drg Rev	
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
3	0017	11631611519-24	HALB	E	TEMPERATURE GAUGE CONN. M33X2					
		3.000	EA	0.680		11631611519-24			01	
					1.000		x		25.04.2014	
C4										
4	0001	AA7326101329	ZSUD	F70	STUB STRT IMMER CS SCRW M33X2-F L=45 40					
		3.000	EA	0.400		NA				
	AA7326101-01	01		A2					25.04.2014	
MA BY QC & IBR										
4	0002	HY9601207112	ZSUD	F70	PLUG M33X2					
		3.000	EA	0.280		NA				
	HY9601207-01-03	04		A1					25.04.2014	
MA BY QC										
4	0003	HY7161094429	ZSUD	F70	WASHER SEALING 33X39X2					
		3.000	EA	0.001		NA				
	HY7161094-00-00-01	01	CSN029310						25.04.2014	
3	0018	11631611519-23	HALB	E	PG, PT & TEST PG TAP POINT CONN. 1/2"					
		4.000	EA	0.350		11631611519-23			01	
					1.000		x		25.04.2014	
GROUP 1 TO 2, C3,5,7, FOR NOZZLE					CONFIG.REF. VAR 06 OF DRG. 11631011178					
4	0001	HE9691001012	ZSUD	F	SW COUPLING ANSI 6000# CS 1/2"X45					
		4.000	EA	0.230						
	HE91001	05	SA350 LF2		A2				25.04.2014	
MA BY QC & IBR										
4	0002	HE9791003017	ZSUD	F	3/8" BAR PLUG CS					
		4.000	EA	0.120						
	HE91003	03	SA105		A1				25.04.2014	
MA BY QC										

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
3	0019	HY1071886096	ZROH	F70	PLT SS 12 TP304L					
SQUARE = 1,400.000 X 1,400.000										
MM	1.000	188.160	KG	188.160						
HY10786		00			A1					25.04.2014
IMPINGEMENT PLATE					MA BY QC					
3	0020	41631613196-01	HALB	F30	TOP CHANNEL					
		1.000	EA	28.460			41631613196-01		00	
					1.000		x		25.04.2014	
4	0001	AA1012708047	ZROH	F70	CHANNEL 125X65 IS2062 GRE250 QLTY-A					
LENGTH =2,180.000										
MM	1.000	28.558	KG	28.558						
AA10108		11								02.09.2010
3	0021	41631613196-02	HALB	F30	BOTTOM CHANNEL					
		1.000	EA	33.810			41631613196-02		00	
					1.000		x		25.04.2014	
4	0001	AA1012708047	ZROH	F70	CHANNEL 125X65 IS2062 GRE250 QLTY-A					
LENGTH =2,590.000										
MM	1.000	33.929	KG	33.929						
AA10108		11								02.09.2010
3	0022	41631613195-01	HALB	F30	TOP FIXING PLATE					
		2.000	EA	4.660			41631613195-01		00	
					1.000		x		25.04.2014	
4	0001	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :125.000 X 350.000										
MM	2.000	10.990	KG	5.495						
HY10470		09	SA516/70		A1					02.09.2010
					MA BY QC					

PART LIST-MATERIAL BOM

H.Material **BOM ST** **Plant** **Header Desc** **Base Qty(EA)**
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) **Created by** **Created on** **Changed on** **Drq no** **Drq Rev**
 48,911.000 HEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no		Drq Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
3	0023	HY1041870078	ZROH	F70	PLT BQ 10 MM					
SQUARE = 60.000 X 60.000										
MM	2.000	0.566	KG	0.283						
HY10470		09	SA516 GR 70	A1					15.04.2015	
PAD FOR MANHOLE HOOK, CUT TO OD 50					MA BY QC					
3	0024	41631112231-00	HALB	F30	HOOK					
		1.000	EA	2.670			41631112231-00		00	
				1.000		x		25.04.2014		
4	0001	AA1020208104	ZROH	F70	ROUND 20HOTRLD/FORGD(NORMLZ) IS1570GR40C8					
LENGTH =1,200.000										
MM	1.000	2.952	KG	1.000						
AA10208		07							02.06.2009	
3	0025	HY7142198052	ZSUD	F70	STUD 2 NUTS M16X90					
		8.000	EA	0.256			NA			
HY7142198-04		04	ASTM A193B7/194 2H					25.04.2014		
3	0026	41631613195-02	HALB	F30	BOTTOM FIXING PLATE					
		2.000	EA	5.110			41631613195-02		00	
				1.000		x		25.04.2014		
4	0001	HY1041870116	ZROH	F70	PLT BQ 16 MM (SA516 GR 70)					
RECTANGLE :125.000 X 350.000										
MM	2.000	10.990	KG	5.495						
HY10470		09	SA516/70	A1					02.09.2010	
					MA BY QC					
3	0027	HE9791003025	ZSUD	F	1/2" BAR PLUG CS (SA105)					
		2.000	EA	0.200						
HE91003		03	SA105	A1					25.04.2014	
ON HYDROTEST BLANKING PLATE FOR H2					MA BY QC					

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0028	HE9791003033	ZSUD	F	3/4" BAR PLUG CS				
		4.000	EA	0.300					
	HE91003	03	SA105	A1					25.04.2014
ON HYDROTEST BLANKING PLATE FOR C1,C2					MA BY QC				
2	0003	11631611494-00	HALB	E	WATER BOX ASSEMBLY				
		1.000	EA	2,705.000		11631611494-00		00	
					1.000		x		13.04.2015
GROUP 1 TO 21									
3	0001	11631611462-00	HALB	F30	VALVE PLATE ASSLY.				
		1.000	EA	1,382.970		11631611462-00		00	
					1.000		x		03.11.2011
4	0001	11631611462-02	HALB	F30	VALVE PLATE (MIDDLE)				
		1.000	EA	588.510		11631611462-02		00	
					1.000		x		06.09.2010
5	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :1,579.000 X 3,980.000									
MM	1.000	603.304	KG	603.304					
	HY10786	00		A1					06.09.2010
					MA BY QC				
4	0002	11631611462-01	HALB	F30	VALVE PLATE (LEFT & RIGHT)				
		2.000	EA	397.230		11631611462-01		00	
					1.000		x		06.09.2010
5	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :1,579.000 X 2,723.000									
MM	2.000	825.526	KG	412.763					
	HY10786	00		A1					06.09.2010
					MA BY QC				

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0002	41631613198-02	HALB	F30	BACKING STRIP				
		2.000	EA	2.490		41631613198-02		00	
					1.000		x		03.11.2011
4	0001	HY1071886053	ZROH	F70	PLT SS 8 TP304L				
RECTANGLE :25.000 X 1,555.000									
MM	2.000	4.976	KG	2.488					
	HY10786	00		A1					06.09.2010
					MA BY QC				
3	0003	41631612563-00	HALB	F30	END PLATE				
		1.000	EA	41.720		41631612563-00		00	
					1.000		x		03.11.2011
4	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :1,590.000 X 420.000									
MM	1.000	64.109	KG	1.000					
	HY10786	00		A1					02.06.2009
					MA BY QC				
3	0004	41631612564-00	HALB	F30	END PLATE				
		1.000	EA	41.760		41631612564-00		00	
					1.000		x		03.11.2011
4	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :1,590.000 X 420.000									
MM	1.000	64.109	KG	1.000					
	HY10786	00		A1					02.06.2009
					MA BY QC				
3	0005	41631613198-01	HALB	F30	PAD				
		2.000	EA	30.590		41631613198-01		00	
					1.000		x		03.11.2011

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
4	0001	HY1071886053	ZROH	F70	PLT SS 8 TP304L				
RECTANGLE :500.000 X 956.000									
MM	2.000	61.184	KG	30.592					
HY10786		00	A1						06.09.2010
					MA BY QC				
3	0006	41631612566-00	HALB	F30	PLATE				
RECTANGLE :500.000 X 956.000									
		4.000	EA	2.690		41631612566-00		00	
					1.000		x	03.11.2011	
					MA BY QC				
4	0001	HY1071886053	ZROH	F70	PLT SS 8 TP304L				
RECTANGLE :970.000 X 70.000									
MM	4.000	17.384	KG	1.000					
HY10786		00	A1						02.06.2009
					MA BY QC				
3	0007	31631611667-01	HALB	F30	J-STIFFENER				
RECTANGLE :970.000 X 70.000									
		2.000	EA	34.710		31631611667-01		00	
					1.000		x	03.11.2011	
					MA BY QC				
4	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :445.000 X 885.000									
MM	2.000	75.614	KG	37.807					
HY10786		00	A1						06.09.2010
					MA BY QC				
3	0008	31631611667-02	HALB	F30	J-STIFFENER				
RECTANGLE :445.000 X 885.000									
		2.000	EA	17.270		31631611667-02		00	
					1.000		x	03.11.2011	
					MA BY QC				
4	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :445.000 X 435.000									
MM	2.000	37.166	KG	18.583					
HY10786		00	A1						06.09.2010
					MA BY QC				

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0009	31631611667-03	HALB	F30	J-STIFFENER				
		3.000	EA	53.240		31631611667-03		00	
					1.000		x		03.11.2011
4	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :445.000 X 1,360.000									
MM	3.000	174.297	KG	58.099					
HY10786		00		A1					06.09.2010
					MA BY QC				
3	0010	AA1071155369	ZROH	F70	PIPE(SMLS) 168.3X7.1 S.S SA312 GRTP321				
LENGTH =400.000									
MM	6.000	2.400	M	11.504					
AA10755		07		A1					03.11.2011
					MA BY QC				
3	0011	41631613200-00	HALB	F30	LINER PLATE (LEFT)				
		3.000	EA	101.100		41631613200-00		00	
					1.000		x		03.11.2011
4	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :815.000 X 3,155.000									
MM	3.000	308.559	KG	102.853					
HY10786		00		A1					06.09.2010
					MA BY QC				
3	0012	41631613201-00	HALB	F30	LINER PLATE (RIGHT)				
		3.000	EA	92.550		41631613201-00		00	
					1.000		x		03.11.2011
4	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :750.000 X 3,155.000									
MM	3.000	283.950	KG	94.650					
HY10786		00		A1					06.09.2010
					MA BY QC				

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
3	0013	41631613199-00	HALB	F30	BACKING STRIP				
		2.000	EA	27.910		41631613199-00		00	
				1.000		x	03.11.2011		
Engineering Remarks					Technology Remarks				
4	0001	HY1071886053	ZROH	F70	PLT SS 8 TP304L				
RECTANGLE :50.000 X 9,450.000									
MM	2.000	60.480	KG	30.240					
HY10786		00		A1				06.09.2010	
					MA BY QC				
3	0014	HE9719162040	ZSUD	F	SPRAY VALVE FOR DEAERATOR				
		124.000	EA	1.500		21631000019-00		01	
HE51272-00		04		A3				03.11.2011	
					MA BY QC & LLOYDS				
3	0015	HE9751386020	ZSUD	F	HEX HEAD BOLT M12X60 SS FULL THREADED				
		248.000	EA	0.068					
				SA193 B8				03.11.2011	
3	0016	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
FULL RING: D= 152.000 / 70.000									
MM	6.000	3.432	KG	0.572					
HY10786		00		A1				03.11.2011	
LINER RING					MA BY QC				
3	0017	41631613198-02	HALB	F30	BACKING STRIP				
		2.000	EA	2.490		41631613198-02		00	
				1.000		x	03.11.2011		
4	0001	HY1071886053	ZROH	F70	PLT SS 8 TP304L				
RECTANGLE :25.000 X 1,555.000									
MM	2.000	4.976	KG	2.488					
HY10786		00		A1				06.09.2010	
					MA BY QC				

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0018	HY7242584280	ZSUD	F70	PLUG HEX HD SS 1/2" NPT ENDS				
		1.000	EA	0.250		NA			
HY7242584-01-00		00	ANSI:B16.11(SS)						03.11.2011
3	0020	31631611667-04	HALB	F30	J-STIFFENER				
		2.000	EA	9.100		31631611667-04		00	
					1.000		x		03.11.2011
4	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :445.000 X 240.000									
MM	2.000	20.506	KG	10.253					
HY10786		00		A1					06.09.2010
					MA BY QC				
3	0021	31631611667-05	HALB	F30	J-STIFFENER				
		2.000	EA	7.180		31631611667-05		00	
					1.000		x		03.11.2011
4	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :445.000 X 180.000									
MM	2.000	15.380	KG	7.690					
HY10786		00		A1					06.09.2010
					MA BY QC				
2	0004	11631611461-00B	HALB	E	TRAY ASSEMBLY				
		1.000	EA	9,006.000		11631611461-00		00	
					1.000		x		13.04.2015
GROUP 1 TO 49									
3	0001	41631611766-00	HALB	F30	BOTTOM CHANNEL				
		9.000	EA	25.000		41631611766-00		00	
					1.000		x		03.11.2011

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no			Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0001	AA1012708039	ZROH	F70	CHANNEL 100X50 IS2062GRE250 QLTY-A					
LENGTH =2,742.000										
MM	9.000	227.034	KG	1.000						
AA10108		11							02.06.2009	
3	0002	AA1012508080	ZROH	F70	ANGLE EQL 50X50X6 IS2062 GRE250 QLTY-A					
LENGTH =9,512.000										
MM	2.000	85.608	KG	42.804						
AA10108		11							03.11.2011	
BOTTOM SIDE ANGLE										
3	0003	AA1012508234	ZROH	F70	ANGLE EQL 100X100X10 IS2062GRE250 QLTY-A					
LENGTH =940.000										
MM	4.000	56.024	KG	14.006						
AA10108		11							03.11.2011	
CORNER POST ANGLE										
3	0004	AA1012508137	ZROH	F70	ANGLE EQL 75X75X8 IS2062 GRE250 QLTY-A					
LENGTH =940.000										
MM	18.000	150.588	KG	8.366						
AA10108		11							03.11.2011	
SIDE POST ANGLE										
3	0005	AA1012508137	ZROH	F70	ANGLE EQL 75X75X8 IS2062 GRE250 QLTY-A					
LENGTH =9,578.000										
MM	2.000	170.488	KG	85.244						
AA10108		11							03.11.2011	
TOP SIDE ANGLE										
3	0006	41631612565-00	HALB	F30	END ANGLE					
LENGTH =2,542.000										
MM	2.000	45.248	KG	1.000						
AA10108		11							02.06.2009	

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0007	41631611455-00	HALB	F30	SIDE CLIP				
		22.000	EA	0.380		41631611455-00		00	
					1.000		x		03.11.2011
4	0001	HY1071886096	ZROH	F70	PLT SS 12 TP304L				
RECTANGLE :95.000 X 65.000									
MM	22.000	13.046	KG	1.000					
HY10786		00		A1					02.06.2009
					MA BY QC				
3	0008	41631611768-00	HALB	F30	HOLD DOWN ANGLE ASSLY.				
		9.000	EA	32.230		41631611768-00		01	
					1.000		x		03.11.2011
4	0001	41631611768-01	HALB	F30	ANGLE SS				
		9.000	EA	30.270		41631611768-01		01	
					1.000		x		02.06.2009
5	0001	HEN107250001	ZROH	F70	ANGLE SS 75 X 75 X 8 TP304				
LENGTH =2,494.000									
MM	9.000	273.843	KG	1.000					
HY10761		00							02.06.2009
4	0002	41631611768-02	HALB	F30	BAR PLATE				
		9.000	EA	1.960		41631611768-02		01	
					1.000		x		02.06.2009
5	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :2,494.000 X 20.000									
MM	9.000	17.955	KG	1.000					
HY10786		00		A1					02.06.2009
					MA BY QC				

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0009	41631611769-00	HALB	F30	END HOLD DOWN ANGLE ASSLY.				
		2.000	EA	31.590		41631611769-00		00	
					1.000		x		03.11.2011
4	0001	41631611769-01	HALB	F30	ANGLE				
		2.000	EA	30.290		41631611769-01		00	
					1.000		x		02.06.2009
5	0001	HEN107250001	ZROH	F70	ANGLE SS 75 X 75 X 8 TP304				
LENGTH =2,494.000									
MM	2.000	60.854	KG	1.000					
	HY10761	00							02.06.2009
4	0002	41631611769-02	HALB	F30	BAR PLATE				
		2.000	EA	1.300		41631611769-02		00	
					1.000		x		02.06.2009
5	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :2,494.000 X 13.000									
MM	2.000	2.594	KG	1.000					
	HY10786	00		A1					02.06.2009
MA BY QC									
3	0010	41631612709-02	HALB	F30	END SHEET				
		2.000	EA	52.170		41631612709-02		00	
					1.000		x		03.11.2011
4	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :2,542.000 X 784.000									
MM	2.000	159.434	KG	1.000					
	HY10786	00		A1					02.06.2009
MA BY QC									

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0011	41631612571-00	HALB	F30	END PLATE (MAN HOLE SIDE)				
		2.000	EA	38.000		41631612571-00		00	
					1.000		x		03.11.2011
4	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :1,015.000 X 936.000									
MM	2.000	76.004	KG	1.000					
	HY10786	00		A1					02.06.2009
					MA BY QC				
3	0012	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :935.000 X 3,149.000									
MM	6.000	706.638	KG	117.773					
	HY10786	00		A1					03.11.2011
SIDE SHEET					MA BY QC				
3	0013	41631612572-00	HALB	F30	END PLATE				
		1.000	EA	102.790		41631612572-00		00	
					1.000		x		03.11.2011
4	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :2,532.000 X 1,015.000									
MM	1.000	102.799	KG	1.000					
	HY10786	00		A1					02.06.2009
					MA BY QC				
3	0014	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :1,015.000 X 3,149.000									
MM	6.000	767.094	KG	127.849					
	HY10786	00		A1					03.11.2011
SIDE PLATE					MA BY QC				
3	0015	AA1012508307	ZROH	F70	ANGLE EQL 150X150X12 IS2062GRE250 QLTY-A				
LENGTH =9,578.000									
MM	2.000	522.958	KG	261.479					
	AA10108	11							03.11.2011
UNEQUAL ANGLE, CUT TO MAKE ANGLE					12X90X150				

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
3	0016	41631611573-00	HALB	F30	SHIM PLATE					
		4.000	EA	0.370			41631611573-00		01	
					1.000		x		03.11.2011	
4	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L					
RECTANGLE :210.000 X 50.000										
MM	4.000	1.680	KG	1.000						
HY10786		00		A1					02.06.2009	
					MA BY QC					
3	0017	HE9751386039	ZSUD	F	BOLT HEXA M12X55 SS					
		6.000	EA	0.010						
			SS						03.11.2011	
3	0018	HE9751386071	ZSUD	F	NUT HEXA M12 SS					
		6.000	EA	0.005						
			SA194 GR.8						03.11.2011	
3	0019	HE9751386101	ZSUD	F	WASHER M12 SS					
		6.000	EA	0.001						
			SS304						03.11.2011	
3	0020	HY1071886010	ZROH	F70	PLT SS 5 TP304L					
SQUARE = 51.000 X 51.000										
MM	45.000	4.680	KG	0.104						
HY10786		00		A1					03.11.2011	
PLATE					MA BY QC					
3	0021	HY1071886010	ZROH	F70	PLT SS 5 TP304L					
RECTANGLE :51.000 X 1,250.000										
MM	2.000	5.100	KG	2.550						
HY10786		00		A1					03.11.2011	
END STIFFENER					MA BY QC					

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0022	41631612710-00	HALB	F30	STIFFENER				
		22.000	EA	3.520		41631612710-00		00	
					1.000		x		03.11.2011
4	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :600.000 X 162.000									
MM	22.000	85.536	KG	1.000					
HY10786		00		A1					02.06.2009
					MA BY QC				
3	0023	HE9751386012	ZSUD	F	HEX HEAD BOLT M20X75 SS FULL THREADED				
		22.000	EA	0.245					
			SA193 B8						03.11.2011
3	0024	HE9751386055	ZSUD	F	NUT HEXA M20 SS				
		22.000	EA	0.005					
			SA194 GR.8						03.11.2011
3	0025	HE9751386098	ZSUD	F	WASHER M20 SS				
		44.000	EA	0.001					
			SS304						03.11.2011
3	0026	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :2,540.000 X 51.000									
MM	1.000	5.182	KG	5.182					
HY10786		00		A1					03.11.2011
END STIFFENER					MA BY QC				
3	0027	41631611463-00	HALB	F30	BOTTOM WASHER				
		45.000	EA	0.020		41631611463-00		00	
					1.000		x		03.11.2011

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
4	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L					
SQUARE = 25.000 X 25.000										
MM	45.000	1.125	KG	1.000						
HY10786		00			A1					02.06.2009
					MA BY QC					
3	0028	41631612272-00	HALB	F30	HOLD DOWN ROD DIA.10					
		45.000	EA	0.630			41631612272-00		01	
					1.000		x		03.11.2011	
4	0001	HY1070270067	ZROH	F70	RND SS 10					
LENGTH =1,010.000										
MM	45.000	28.620	KG	0.636						
HY10770		02			A1					25.05.2015
3	0029	HE9751386128	ZSUD	F	WASHER M10 SS					
		45.000	EA	0.001						
									03.11.2011	
									SS304	
3	0030	HE9751386080	ZSUD	F	NUT HEXA M10 SS					
		135.000	EA	0.005						
									03.11.2011	
									SA194 GR.8	
3	0031	HE9751387019	ZSUD	F	BAR GRATING WIDTH=755, LENGTH=2500					
		14.000	EA	75.000						
HE51387V01			CS						03.11.2011	
3	0032	41631611577-00	HALB	F30	SIDE BAR					
		2.000	EA	1.910			41631611577-00		01	
					1.000		x		03.11.2011	

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks					
4	0001	HY1071886010	ZROH	F70	PLT SS		5 TP304L			
RECTANGLE :51.000 X 940.000										
MM	2.000	3.836	KG	1.918						
HY10786		00			A1					25.05.2015
3	0033	41631611578-00	HALB	F30	SIDE BAR					
RECTANGLE :51.000 X 934.000										
		2.000	EA	1.890			41631611578-00		01	
					1.000		x	03.11.2011		
4	0001	HY1071886010	ZROH	F70	PLT SS		5 TP304L			
RECTANGLE :51.000 X 934.000										
MM	2.000	3.810	KG	1.905						
HY10786		00			A1					25.05.2015
3	0034	41631611579-00	HALB	F30	GRAB BAR					
RECTANGLE :51.000 X 934.000										
		2.000	EA	1.310			41631611579-00		01	
					1.000		x	03.11.2011		
4	0001	HY1071886010	ZROH	F70	PLT SS		5 TP304L			
RECTANGLE :70.000 X 650.000										
MM	2.000	3.640	KG	1.820						
HY10786		00			A1					25.05.2015
3	0035	HY1071886010	ZROH	F70	PLT SS		5 TP304L			
RECTANGLE :945.000 X 660.000										
MM	1.000	24.948	KG	24.948						
HY10786		00			A1					03.11.2011
DOOR					MA BY QC					
3	0036									
RECTANGLE :325.000 X 610.000										
		2.000	ST							
								03.11.2011		
SWINGING DOOR, DIM. 325X610, MATL.					COVERED IN POS. NO.10					

PART LIST-MATERIAL BOM

H.Material **BOM ST** **Plant** **Header Desc** **Base Qty(EA)**
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) **Created by** **Created on** **Changed on** **Drq no** **Drq Rev**
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no		Drq Rev	
Spec No	SR ev	Matl.Std		Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
3	0037	HY1071155660	ZROH	F70	PIPE SS 12.7 X 2.1 A312 TP321					
LENGTH =600.000										
MM	2.000	1.200	M	0.336						
AA10755		07			A1					03.11.2011
					MA BY QC					
3	0038	HE9751386136	ZSUD	F	SS HINGE L=560, (16 GAUGE X 38 WIDTH)					
		2.000	EA	1.000						
		SS304								03.11.2011
3	0039	HE9751386047	ZSUD	F	BOLT HEXA M6X35 SS					
		8.000	EA	0.001						
										03.11.2011
3	0040	HE9751386063	ZSUD	F	NUT HEXA M6 SS					
		8.000	EA	0.001						
		SA194 GR.8								03.11.2011
3	0041	HE9751386110	ZSUD	F	WASHER M6 SS					
		16.000	EA	0.001						
		SS304								03.11.2011
3	0042	41631613197-00	HALB	F30	ANGLE					
		2.000	EA	9.080		41631613197-00				00
						1.000	x			03.11.2011
4	0001	AA1012508102	ZROH	F70	ANGLE EQL 65X65X8 IS2062 GRE250 QLTY-A					
LENGTH =1,200.000										
MM	2.000	18.480	KG	9.240						
AA10108		11							02.09.2010	

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description				
RM Size									
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)		Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from
Engineering Remarks					Technology Remarks				
3	0043	41631611781-00	HALB	F30	PLATE				
		2.000	EA	0.800		41631611781-00		00	
					1.000		x		03.11.2011
4	0001	HY1041870060	ZROH	F70	PLT BQ 8 MM				
RECTANGLE :153.000 X 95.000									
MM	2.000	1.826	KG	1.000					
HY10470		09		A1					02.06.2009
					MA BY QC				
3	0044	HY1041870060	ZROH	F70	PLT BQ 8 MM				
RECTANGLE :800.000 X 1,200.000									
MM	1.000	60.288	KG	60.288					
HY10470		09		A1					03.11.2011
MANWAY PLATE					MA BY QC				
3	0045	HE9710042076	ZSUD	F	TRAY ASSEMBLY FOR DEAERATOR				
		720.000	EA	6.000		21631000020-00		03	
HE51493-00		00	SS430	A3					03.11.2011
					MA BY QC &LLOYDS				
3	0046	41631612298-00	HALB	F30	PAD(FOR UNEQUAL ANGLE)				
		28.000	EA	4.930		41631612298-00		00	
					1.000		x		03.11.2011
MA BY QC & LLOYDS									
4	0001	HY1041870078	ZROH	F70	PLT BQ 10 MM				
RECTANGLE :251.000 X 250.000									
MM	28.000	137.928	KG	1.000					
HY10470		09	SA516 GR 70	A1					02.06.2009
					MA BY QC				
3	0047	HY1071886010	ZROH	F70	PLT SS 5 TP304L				
RECTANGLE :660.000 X 75.000									
MM	1.000	1.980	KG	1.980					
HY10786		00		A1					03.11.2011
COVER PLATE					MA BY QC				

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
3	0048	HE9715574009	ZSUD	F	SPLIT PIN 2.5 X 15, SS					
		45.000	EA	0.006			41631000378-01		00	
		SS304							03.11.2011	
ON HOLD DOWN ROD										
3	0049	41631612692-00	HALB	F30	BOTTOM CHANNEL					
		2.000	EA	25.100			41631612692-00		00	
					1.000		x		03.11.2011	
4	0001	AA1012708039	ZROH	F70	CHANNEL 100X50 IS2062GRE250 QLTY-A					
LENGTH =2,742.000										
MM	2.000	50.452	KG	1.000						
	AA10108	11							02.06.2009	
2	0100	D11631611293			TRAY ASSLY DETAILS					
		1.000	ST							
		00							13.04.2015	
2	0101	D41631000608			DE ID3000X28 THK. (MIN.) WITH SPH DISH					
		1.000	ST							
		01							13.04.2015	
2	0102	D41631000618			PLATE FOR 2:1 ELLIPSOIDAL DISHED END					
		1.000	ST							
		00							17.04.2015	
1	0051	41631613068-03	HALB	F30	ORIFICE PIPE ASSEMBLY					
		6.000	EA	47.820			41631613068-03		00	
					1.000				13.04.2015	
FOR H4										

PART LIST-MATERIAL BOM

H.Material BOM ST Plant Header Desc Base Qty(EA)
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) Created by Created on Changed on Drg no Drg Rev
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drg no		Drg Rev	
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
2	0001	CPCA10350006	ZSUD	F	GLOBE VLV,SS A351CF8,2"CL300SORF					
		6.000	EA	35.000			NA			
NA				A1					02.06.2009	
					MA BY QC					
2	0002	HY1071055771	ZROH	F70	PIPE SS 60.3 X 8.74 A312 TP321					
LENGTH =195.000										
MM	6.000	1.170	M	2.060						
AA10755		07		A1					02.06.2009	
					MA BY QC					
2	0003	HY7246164065	ZSUD	F70	FLANGE SOW SS 2" CL 300 RAISED FACE					
		12.000	EA	3.000			NA			
HY7246164-02		02	ANSI:B16.5	A1					02.06.2009	
					MA BY QC					
2	0004	HY7240366057	ZSUD	F	NAB M.S.W. GASKET SIZE 2"#600 GRPH					
		18.000	EA	0.050						
HY7240366		00	GRAPHITE						02.06.2009	
					MA BY QC					
2	0005	41631612440-00	HALB	E	ORIFICE PLATE					
		6.000	EA	0.260			41631612440-00		01	
					1.000		x		02.06.2009	
					MA BY QC					
3	0001	HY1071886010	ZROH	F70	PLT SS 5 TP304L					
D=92.000										
MM	6.000	1.596	KG	0.260						
HY10786		00		A1					02.06.2009	
					MA BY QC					
2	0006	HY7142198060	ZSUD	F70	STUD 2 NUTS M16X100					
		96.000	EA	0.272			NA			
HY7142198		04	ASTM A193B7/A1942H						02.06.2009	
					MA BY QC					

PART LIST-MATERIAL BOM

H.Material **BOM ST** **Plant** **Header Desc** **Base Qty(EA)**
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) **Created by** **Created on** **Changed on** **Drq no** **Drq Rev**
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no			Drq Rev
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
1	0052									
		2.000	ST							
				A2						13.04.2015
SRV 8"300/10"150#,SP 13.5(G),RC 110T/HR,					WT.381KG					
1	0053	AA7246101144	ZSUD	F70	FLANGE SOW CS 10" CL 150 RAISED FACE					
		2.000	EA		17.000					NA
		AA7246101-02	02	ANSI B16.5	A2					13.04.2015
FOR H3					MA BY QC					
1	0054	HY7142198370	ZSUD	F70	STUD 2 NUTS M22X160					
		24.000	EA		0.728					NA
		HY7142198-04	04	ASTM A193B7/194 2H						13.04.2015
FOR H3										
1	0055	HY7240364062	ZSUD	F	NAB M.S.W. GASKET SIZE 10" #150 GRPH					
		2.000	EA		0.300					
		HY7240364	00	GRAPHITE						13.04.2015
FOR H3										
1	0056	HY7240365093	ZSUD	F	NAB M.S.W. GASKET SIZE 8" #300 GRPH					
		2.000	EA		0.200					
		HY7240365	01	GRAPHITE						13.04.2015
FOR H3										
1	0057	AA1049355083	ZROH	F70	PIPE(SMLS)- 21.3 X3.73 CS SA106 GR B					
LENGTH =1,000.000										
MM	4.000	4.000	M		1.600					
		AA10455	09		A2					13.04.2015
FOR C3,C5,C7					MA BY QC					
1	0058	AA7506468581	ZSUD	F	GLOBE VALVE,CS 1/2", 800,SOCKET					
		4.000	EA		1.600					NA
		AA7506468	00		A2					13.04.2015
FOR C3,C5,C7					MA BY QC					

PART LIST-MATERIAL BOM

H.Material **BOM ST** **Plant** **Header Desc** **Base Qty(EA)**
 T31631611762-00 03 P006 TOTAL DEAERATOR HEATER ASSLY. 1

Net Wt(KG) **Created by** **Created on** **Changed on** **Drq no** **Drq Rev**
 48,911.000 HEEDEASH 13.04.2015 27.05.2015 31631611762-00 00

Lvl	Pos No	Item Material No	Mat type	SPK	Description					
RM Size										
RMS unit	RM pieces	Qty in MU	Qty Unit	Net Wt(kg)			Drq no			Drq Rev
Spec No		SR ev	Matl.Std	Insp agency	Base Qty	Com srp	Ph id	Spr Ind	Valid from	
Engineering Remarks					Technology Remarks					
1	0059									
		3.000	ST							
				A1						13.04.2015
THERMOWELL, C4, COVERED VIDE MATL. NO.					HY7326005290, WT. 0.6 KGS.MA BY QC					
1	0060									
		3.000	ST							
				A1						13.04.2015
TEMP. GAUGE, C4, COVERED VIDE MATL. NO.					HY7320301750, WT. 2 KGS.MA BY QC					
1	0061									
		1.000	ST							
				A1						13.04.2015
PRESS. GAUGE, C3, COVERED VIDE MATL. NO.					HE9751463017, WT. 2.5 KGS.MA BY QC					