



CLIENT: TAMOIL Raffinazione S.p.A.
PROJECT: MINIMUM INVESTEMENT PROJECT
2200 Cooling Water System


CONTRACT: 1-BD-0381A

Equipment List

Drawing no.: BD0381A-01-2200-101
TAMOIL doc no.:

Revision: C01

Date: 14/11/2007

Issued by: G.Udumli 

Checked by: R. Grigoletto 

Approved by: F. Croce



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EQUIPMENT LIST

General Notes

(A): P&ID Number

xxx

(B): Requisition

BD0381A-xxx

(C): Insulation Type

HC = Heat Conservation

NI = Not Insulated

PP = Personnel Protection

ST = Steam Tracing

ET = Electrical Tracing

WW = Winterized

AI = Acoustic Insulation

(D): PED Category

Category from SEP to IV (to be defined by Vendors)

"Type Of Service" field is indicating the service: continuous, stand-by, intermitten, spare...



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EQUIPMENT LIST

Equipment Number	Equipment Name	Equipment Type	P&ID N° (A)	Requisition (B)	Weight	Size		Electrical Power	Voltage	Material	Duty	Design		Insulation		PED Cat (D)	TOS	Type Of Service	Remarks	Revision
						DIAMETER	LENGTH					Press	Temp	Type (C)	Thick					
						kg	mm					mm	kW	V	MW					
20-P-51A	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	HOLD	HOLD	Capacity: 2800 m3/h Head: 60m	710	6000	Case: CS Impeller: CI	N.A.	HOLD	HOLD	N.A.	N.A.	N.A.	HOLD	Continuous	New pump to be added with new motor	C01	
20-P-51B	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	HOLD	HOLD	Capacity: 2800 m3/h Head: 60m	710	6000	Case: CS Impeller: CI	N.A.	HOLD	HOLD	N.A.	N.A.	N.A.	HOLD	Continuous	New pump to be added with new motor	C01	
20-P-51C	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	HOLD	HOLD	Capacity: 2800 m3/h Head: 60m	N.A.	N.A.	Case: CS Impeller: CI	N.A.	HOLD	HOLD	N.A.	N.A.	N.A.	HOLD	Spare	New spare pump turbine driven with turbine rating of 710 KW	C01	
FUTURE FOR HCC																				
20-P-52A	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	HOLD	HOLD	Capacity: 3800 m3/h Head: 60m	950	6000	Case: CS Impeller: CI	N.A.	HOLD	HOLD	N.A.	N.A.	N.A.	HOLD	Continuous	New pump to be added with new motor	C01	
20-P-52B	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	HOLD	HOLD	Capacity: 3800 m3/h Head: 60m	N.A.	N.A.	Case: CS Impeller: CI	N.A.	HOLD	HOLD	N.A.	N.A.	N.A.	HOLD	Spare	New spare pump turbine driven with turbine rating of 950 KW	C01	



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						DIAMETER	LENGTH					Press	Temp	Type (C)	Thick					
						kg	mm					mm	kW	V	MW					
20-2P-22A	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	-	-	Capacity: 1400 m3/h	-	-	-	-	N.A.	-	-	N.A.	N.A.	N.A.	HOLD	-	TO BE DISMANTLED: Steam turbine driven	C01
20-2P-22B	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	-	-	Capacity: 1400 m3/h	-	-	-	-	N.A.	-	-	N.A.	N.A.	N.A.	HOLD	-	TO BE DISMANTLED: Electric motor driven	C01
20-2P-22C	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	-	-	Capacity: 1400 m3/h	-	-	-	-	N.A.	-	-	N.A.	N.A.	N.A.	HOLD	-	TO BE DISMANTLED: Electric motor driven	C01
20-2P-22D	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	-	-	Capacity: 1400 m3/h	-	-	-	-	N.A.	-	-	N.A.	N.A.	N.A.	HOLD	-	TO BE DISMANTLED: Electric motor driven	C01
20-2P-22E	COOLING TOWER PUMP	CENTRIFUGAL	00000-11-NF-0001	-	-	Capacity: 1400 m3/h	-	-	-	-	N.A.	-	-	N.A.	N.A.	N.A.	HOLD	-	TO BE DISMANTLED: Electric motor driven	C01