## P&ID FEEDWATER SYSTEM

		REVISION 22-07-05			REVISION			REVISION 22-11-11			REVISION			REVISION		
					22-08-05		23-04-25				23-07-07					
SHEET	DESCRIPTION	PROJECT	ACCIONA	ΕΆΙ	PROJECT	ACCIONA	EAI	PROJECT	ACCIONA	EAI	PROJECT	ACCIONA	ΕAΙ	PROJECT	ACCIONA	EAI
00	P&ID FEEDWATER SYSTEM. INDEX	IFR.P01	IFR.P01	01	IFR.P02	IFR.P02	02	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05
01	P&ID FEEDWATER SYSTEM. DEAERATOR & FEEDWATER TANK	IFR.P01	IFR.P01	01	IFR.P02	IFR.P02	02	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05
02	P&ID FEEDWATER SYSTEM. FEEDWATER PUMPS	IFR.P01	IFR.P01	01	IFR.P02	IFR.P02	02	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05
03	P&ID FEEDWATER SYSTEM. FEEDWATER DISTRIBUTION	IFR.P01	IFR.P01	01	IFR.P02	IFR.P02	02	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05
04	P&ID FEEDWATER SYSTEM. BOILER 1 PRIMARY AIR PREHEATER	IFR.P01	IFR.P01	01	IFR.P02	IFR.P02	02	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05
05	P&ID FEEDWATER SYSTEM. BOILER 2 PRIMARY AIR PREHEATER	_	_	_	_	_	_	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05
06	P&ID FEEDWATER SYSTEM. BOILER 1 SECONDARY AIR PREHEATER	_	_	_	_	_	_	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05
07	P&ID FEEDWATER SYSTEM. BOILER 2 SECONDARY AIR PREHEATER	_	_	_	_	_	_	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05
08	P&ID FEEDWATER SYSTEM. FLUE GAS TREATMENT	_	_	_	_	_	_	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05
09	P&ID FEEDWATER SYSTEM. BOILER CONDENSATE RETURN SYSTEM	_	_	_	_	_	_	IFD.P03	IFD.P03	03	IFD.P04	IFD.P04	04	IFD.P05	IFD.P05	05

BRANCH	DESIGN						
DRANCH	P barg	T °C					
а	3.5	149					
b	6	149					
С	42	150					
d	128	152					
е	3.5/-1	215					
f	20.3	150					
g	6	159					
h	66	283					
i	4	149					
j	10	150					
k	12	50					

## REFERENCE DRAWINGS

- O.- P&ID SYMBOLOGY AND GENERAL NOTES
- 1.- P&ID CONDENSATE SYSTEM 2.- P&ID BOILER DRAINS SYSTEM
- 3.- P&ID BOILER BLOWDOWN
- 4.- P&ID MAIN STEAM, EXTRACTIONS, AUXILIARY STEAM & BYPASS SYSTEM
- 5.- P&ID SAMPLING SYSTEM
- 6.- P&ID DEMINERALIZED WATER SYSTEM
- 7.- P&ID CHEMICAL DOSING SYSTEM
- 8.- P&ID PRIMARY AIR PREHEATER 9.- P&ID SECONDARY AIR PREHEATER
- 10.- P&ID FLUE GAS PATH SCR
- 11.- P&ID CLOSED COOLING WATER SYSTEM 12.- P&ID BOILER WATER SIDE DRUM
- AND ECONOMISER
- 13.- P&ID WASTE WATER SYSTEM
- 14.- P&ID BOILER REUSED WATER SYSTEM

## LC NPE7-EAI-41XX-XXX-PD-XA-000008 HAN NPE7-EAI-41AC-XXX-PD-XA-000005 NPE7-HZI-41AC2-ZZZ-PD-XA-000007 NPE7-EAI-41XX-XXX-PD-XA-000002 QU NPE7-EAI-41XX-XXX-PD-XA-000014 GHC NPE7-EAI-41XX-XXX-PD-XA-000018 NPE7-EAI-41XX-XXX-PD-XA-000017 NPE7-HZI-41AC4-ZZZ-PD-XA-000002 NPE7-HZI-41AC4-ZZZ-PD-XA-000006

<u>DRAWING Nº</u>

NPE7-EAI-41XX-XXX-PD-XA-000001

- NPE7-EAI-41XX-XXX-PD-XA-000007 NPE7-HZ1-41AC2-ZZZ-PD-XA-000003
  - NPE7-EAI-41MX-XXX-PD-XA-000016

NPE7-HZI-41AE-ZZZ-PD-XA-000001

- LCQ NPE7-EAI-41AX-XXX-PD-XA-000006

## NOTES:

- O.- THIS DRAWING IS PRELIMINARY AND IS SUBJECTED TO REVISION DEPENDING ON THE FINAL EQUIPMENT SUPPLIERS. CONNECTIONS WITH MAIN EQUIPMENT TO BE CHECKED DURING FURTHER REVISIONS TAKING INTO ACCOUNT FINAL EQUIPMENT DOCUMENTATION.
- 1.- ADEQUATE STRAIGHTS DIAMATERS SHALL BE CONSIDERED FOR FLOWMETER TYPOLOGY
- 2.- VENTS WILL BE DISCHARGED TO A SAFE PLACE
- ∧ (3.- DISMANTLING FLANGES)
- 4.- VALVE SHALL BE PROVIDED BY PUMP SUPPLIER 5.- TERMINAL POINT PENDING FROM HZI
- 6.- FW PUMPS ARE REFRIGERATED BY MEANS OF CLOSED COOLING WATER SYSTEM AND IT IS REPRESENTED IN THE REFERENCE 11.
- 7.- INFORMATION ABOUT BOILER CONDENSATE RETURN IS PRELIMINARY UNTIL FINAL CONFIRMATION OF THE SUPPLIER (HZI) 8.- VALVES OF DN200 SIZE OR HIGHER SHALL INCLUDE LOCALLY ACTUATED ELECTRICAL PINION
- 9.- ALL BOILER CONDENSATE COLLECTION SUBSYSTEM DESIGN CONCEPT SHALL TO BE REVIEWED, CONFIRMED AND APPROVED BY BOILER MANUFACTURER (HZI)
- 10.- CONTROL VALVES AT RISK OF CRITICAL CONDITIONS OR AT RISK OF FLASHING SHALL BE PROVIDED AT ITS OUTLET WITH A TEE WITH A BLIND FLANGE
- 11.- CONDENSATE INLET CONNECTION SHALL BE OVER HH LEVEL OF THE TANK TO AVOID A CONDENSATE LEVEL IN THE STEAM-FLUE GAS HEAT EXCHANGER
- 12.- CONNECTION FOR DISTRICT HEATING FUTURE EXPANSION
- 13.- IN CASE OF BEING NECESSARY FOR TEMPERATURE MEASUREMENT THE DIAMETER OF THE LINE WILL BE INCREASED ONLY IN THE SECTION REQUIRED FOR THIS PURPOSE. 14.- SPRAY WATER DISTRIBUTION SHALL BE OVER WATER LEVEL.
- 15.- HIGH PRESSURE NOZZLES SHALL BE PROVIDED WITH IMPINGEMENT PLATES AT THE INLET OF THE TANK.
- 16.- HIGH PRESSURE CONTROL STATION SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE TANK NOZZLE. 17.- LOCATE AS CLOSE AS POSSIBLE TO THE DISCHARGE POINT
- 18.- DIELECTRIC ISOLATION KIT
- \19.- PERMANENT VALVE TRAVEL POSITION ADJUST TO BE DEFINED DURING COMMISSIONING STAGE.

	1 1			1		1						
1.	P04	ISSUED FOR DESIGN	23-04-25	CPJ	FHS	EGH						
	P03	ISSUED FOR DESIGN	22-11-11	CPJ	FHS	EGH						
DOTI ED MANUEACTURER (UZI)	REV.	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED						
BOILER MANUFACTURER (HZI)  A TEE WITH A BLIND FLANGE	MODIFICATIONS											
THE SECTION REQUIRED FOR THIS PURPOSE.	CLIENT NORTH LONDON WASTE AUTHORITY EMPRESARIOS AGRUPADOS CONTRACTOR  CONTRACTOR  CONTRACTOR  CONTRACTOR  CONTRACTOR  CONTRACTOR  CONTRACTOR  CONTRACTOR											
	NORTH LONDON HEAT AND POWER PROJECT											
	FORMAT	DRAWING TITLE										
	A0	P&ID FEEDWATER SYS		[QR	]							
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