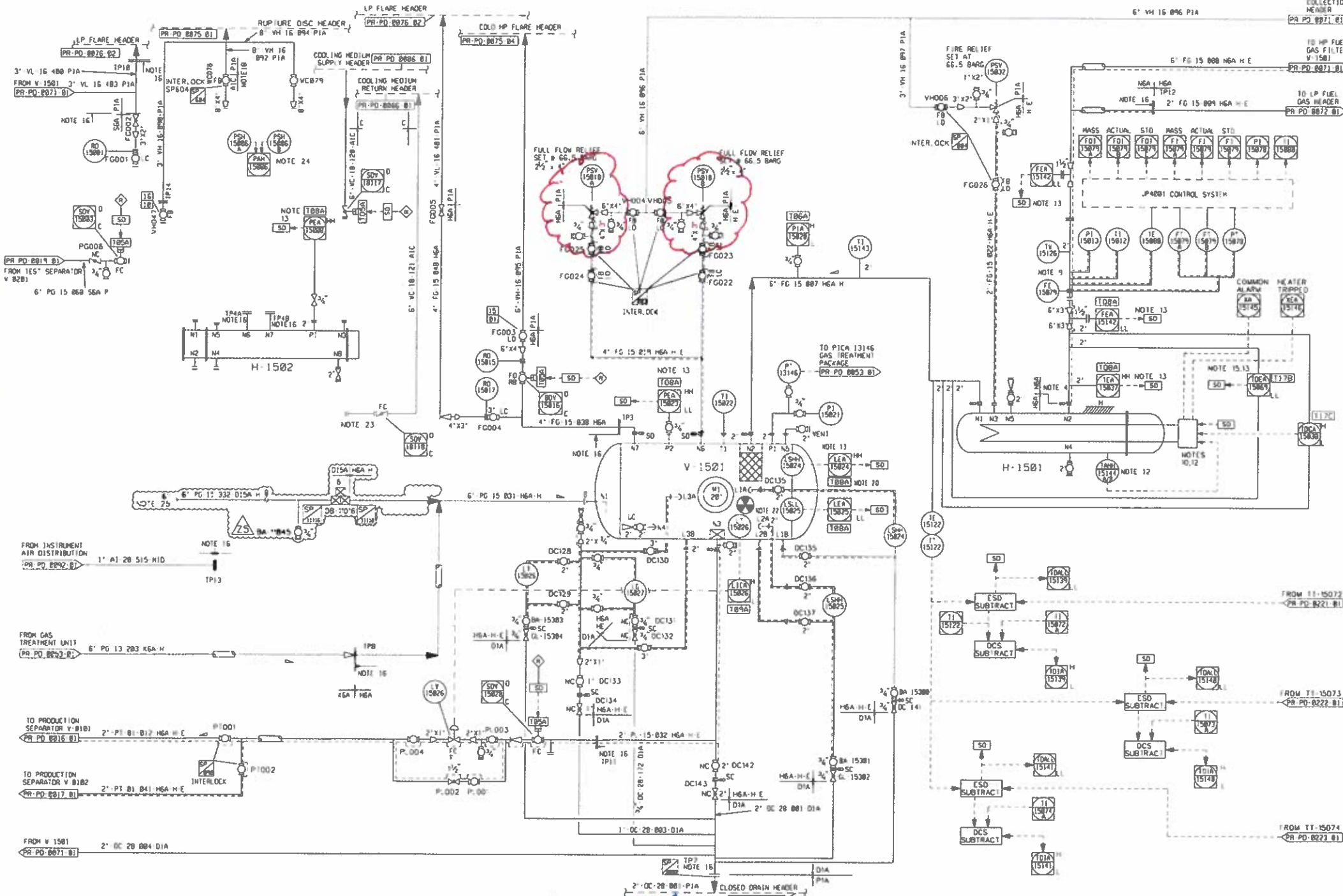


**H-1502  
FUEL GAS COOLER**  
DUTY 9.77 MM3/H  
PROCESS DESIGN TEMP (SHELL SIDE): 40°C/105°F  
PROCESS DESIGN TEMP (TUBE SIDE): 40°C/105°F  
PROCESS DESIGN PRESS. (SHELL SIDE): 18.7 BARG  
PROCESS DESIGN PRESS. (TUBE SIDE): 66.5 BARG  
PROCESS OPERATING TEMP (SHELL SIDE): 13.3°C/56°F  
PROCESS OPERATING TEMP (TUBE SIDE): 129.2°C/268°F  
V/T: 15-005 A/C

**V-1501  
FUEL GAS KO DRUM**  
SIZE 2500MM ID 6650MM HT  
DESIGN TEMP: 40°C/105°F  
DESIGN PRESS: 66.5 BARG  
PROCESS OPERATING TEMP: 25.9°C  
PROCESS OPERATING PRESS: 58 BARG  
V/T: 15-001 HGA F/E

**H-1501  
FUEL GAS SUPER HEATER**  
DUTY 1.47 MM3/H  
PROCESS DESIGN TEMP (SHELL SIDE): 40°C/105°F  
PROCESS DESIGN PRESS. (SHELL SIDE): 66.5 BARG  
PROCESS OPERATING TEMP (SHELL SIDE): 25.9°C/58.4°F  
V/T: 15-004 HGA



- NOTES**
1. LOCATE SDV AT HIGH POINT.
  2. PSV, PSE AND VENT INLET AND DISCHARGE PIPING IS NOT TO BE POCKETED. DISCHARGE PIPING IS TO SLOPE TO FLARE HEADER MIN. SLOPE 50:1 APPROX.
  3. ALL DRAINS TO SLOPE TO HEADER.
  4. LOCATE AT MIN. DISTANCE FROM HEATER.
  5. DELETED.
  6. DELETED.
  7. DELETED.
  8. DELETED.
  9. COMPLETE ORIFICE METER RUN ASSEMBLY WITH UPSTREAM AND DOWNSTREAM FLOW CONDITIONING PIPE RUN SECTIONS AND PRE-INSTALLED INSTRUMENTS BY SELLER OF JP 4201.
  10. MANUAL RESET FOR ELEMENT TRIP REQUIRED.
  11. DELETED.
  12. HEATER ELEMENT HIGH TEMPERATURE TRIP SIGNAL TO SWITCH GEAR, TO BE PROVIDED.
  13. INSTRUMENT INITIATES CHANGE OVER FROM GAS TO DIESEL ON TURBINES.
  14. DELETED.
  15. TOEA LL 15069 TO HAVE START UP OVERRIDE WITH AUTO RESET TRIP UPON MEETING HEALTHY CONDITION AFTER START UP.
  16. FUEL GAS TREATMENT TO BE PACKAGE UNIT.
  17. DELETED.
  18. ITEM FREE ISSUE BY PACKAGE SELLER.
  19. DELETED.
  20. LSHH 15024, LSHH 15025 & LY 15026 ARE NUCLEONIC LEVEL SYSTEM.
  21. DELETED.
  22. RADIOACTIVE SOURCE HOLDER VESSEL PAD MOUNTED.
  23. ACTUATOR REMOVED FROM SDV 18118.
  24. PSH 15026A/B WERE PRESSURE SWITCHES FOR BURSTING DISKS PSE 15026A/B WHICH HAVE BEEN REMOVED. PRESSURE SWITCHES AND ASSOCIATED INSTRUMENT TUBING REMAIN REDUNDANT IN SITU.
  25. FUTURE TIE-IN FOR GAS IMPORT FACILITIES.

**AS-Built/Info Change**

NAME	SIGNATURE
D. Cameron	Sign <i>DAC</i>
E. Smolek	Sign <i>ES</i>
T Rafferty	Sign <i>T Rafferty</i>

ON Y ACTIVATED TRACE NO  
Change Approved YES NO  
ALL OTHER INSTALLED TRACE  
HEATING IS NOT ACTIVATED  
AND NOT SHOWN ON P & ID.

FOR APPROVAL SIGNATURES SEE  
ARCHIVED DRAWING AT REV D

**SCOTT** **WorleyParsons**  
resources & energy

TITLE  
PPNG & INSTRUMENT DIAGRAM  
FUEL GAS KO DRUM

DRAWING NO  
SCOTT-FW-0000-PR-PD-0070-01

PROJECT  
DRC  
REV  
SCALE

**M1** ONE

REV	REASON FOR ISSUE	DATE	DRN	CD	BY	ENG	CD	APPD
25	AS BUILT FOR SMOG1952	27/05/19	V	LM	LM	LM	LM	LM
24	AS BUILT FOR SC0047	27/02/18	DO	AWC	AWC	LM	AWC	LM
23	AS BUILT FOR SC0046	17/04/18	DO	LM	LM	LM	LM	LM
22	AS BUILT FOR SC0038	27/06/17	DO	LM	LM	RS	RS	LM
21	AS BUILT FOR SMOG1860	14/03/17	DO	LM	LM	LM	LM	LM
16	AS BUILT PER SEQ 493	25/10/17	AC	JS	PE	PE	TR	LM

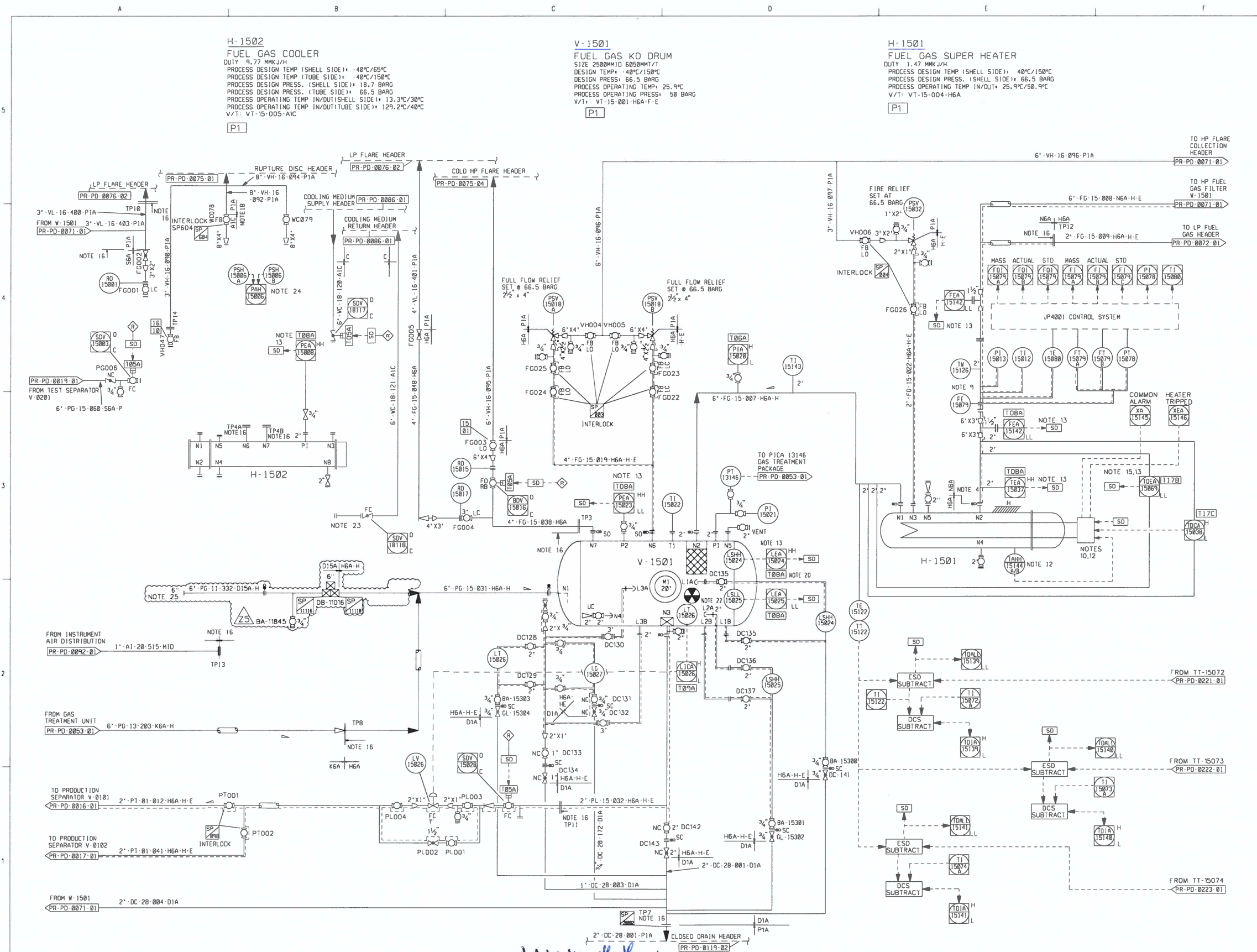
REV	REASON FOR ISSUE	DATE	DRN	CD	BY	ENG	CD	APPD
15	AS BUILT TO INCLUDE SEQ 727	14/02/08	VW	EC	EC	A	A	G
14	UPDATED TO REFLECT SEQ 1080	27/07/03	CPG	SH	DB			MS
13	AS BUILT TO INCLUDE EVO29	05/05/01	DR	DF				
12	AS BUILT TO INCLUDE DO 254	27/08/00	WV	CHV				
11	AS COMMISSIONED	06/05/99	CW	DW				KJH
4	REVISED TO LATEST INFORMATION	19/08/98	JS		JS	KJL		

THIS IS A CAD PRODUCED  
DRAWING AND SHOULD NOT  
BE MANUALLY MODIFIED

**CNOOC**

SCOTT-FW-0000-PR-PD-0070-01

PROJECT  
DRC  
REV  
SCALE



NOTES

1. LOCATE SDV AT HIGH POINT.
2. PSV, PSE AND VENT INLET AND DISCHARGE PIPING IS NOT TO BE POCKETED. DISCHARGE PIPING IS TO SLOPE TO FLARE HEADER MIN. SLOPE 50:1 APPROX.
3. ALL DRAINS TO SLOPE TO HEADER.
4. LOCATE AT MIN. DISTANCE FROM HEATER.
5. DELETED.
6. DELETED.
7. DELETED.
8. DELETED.
9. COMPLETE ORIFICE METER-RUN ASSEMBLY WITH UPSTREAM AND DOWNSTREAM FLOW CONDITIONING PIPE-RUN SECTIONS AND PRE-INSTALLED INSTRUMENTS BY SELLER OF JP-4001.
10. MANUAL RESET FOR ELEMENT TRIP REQUIRED.
11. DELETED.
12. HEATER ELEMENT HIGH TEMPERATURE TRIP SIGNAL TO SWITCH GEAR, TO BE PROVIDED.
13. INSTRUMENT INITIATES CHANGE-OVER FROM GAS TO DIESEL ON TURBINES.
14. DELETED.
15. TDEA LL-15069 TO HAVE START-UP OVERRIDE WITH AUTO RESET TRIP UPON MEETING HEALTHY CONDITION AFTER START-UP.
16. FUEL GAS TREATMENT TO BE PACKAGE UNIT.
17. DELETED.
18. ITEM FREE ISSUE BY PACKAGE SELLER.
19. DELETED.
20. LSHH-15024, LSL-15025 & LY-15026 ARE NUCLEONIC LEVEL SYSTEM.
21. DELETED.
22. RADIOACTIVE SOURCE HOLDER VESSEL PAD MOUNTED.
23. ACTUATOR REMOVED FROM SDV-18118.
24. PSH-15006A/B WERE PRESSURE SWITCHES FOR BURSTING DISKS PSE-15006A/B WHICH HAVE BEEN REMOVED. PRESSURE SWITCHES AND ASSOCIATED INSTRUMENT TUBING REMAIN REDUNDANT IN SITU.
25. FUTURE TIE-IN FOR GAS IMPORT FACILITIES.

ONLY ACTIVATED TRACE HEATING IS SHOWN ON P & ID. ALL OTHER INSTALLED TRACE HEATING IS NOT ACTIVATED AND NOT SHOWN ON P & ID.

FOR APPROVAL SIGNATURES SEE ARCHIVED DRAWING AT REV D

REFERENCE DRAWINGS		REV		DATE		DRN		CKD		BY		ENG		L.E.		CNOCC	
25	AS BUILT FOR SMOC1952	27/05/19	LM	LM	LM	JL	JL										
24	AS-BUILT FOR SIC0047	27/02/18	DD	AWC	AWC	LM	AWC										
23	AS-BUILT FOR SIC0046	17/01/18	DD	LM	LM	JL	JL	TR									
22	AS-BUILT FOR SIC0038	22/06/17	DD	LM	LM	RS	RS	TR									
21	AS-BUILT FOR SMOC1860	14/03/17	DD	LM	LM	JL	JL	TR									
16	AS BUILT PER SEQ1493	25/10/11	AC	JS	PE	PE	TR	TR									
REV	REASON FOR ISSUE	DATE	DRN	CKD	BY	ENG	CKD	L.E.	APPD	CNOCC	APPD						

REV		DATE		DRN		CKD		BY		ENG		L.E.		CNOCC	
15	AS BUILT TO INCLUDE SEQ1227	14/02/08	VM	EC	EC	AL	AL	GL							
14	UPDATED TO REFLECT SEQ-1080	12/12/03	GPC	SH	DB			MS							
13	AS BUILT TO INCLUDE EMRO29	15/05/97	DR	DF											
12	AS BUILT TO INCLUDE DO-254	27/06/95	WN	CWM											
11	AS COMMISSIONED	06/05/94	CW	DM				KJH							
4	REVISED TO LATEST INFORMATION	10/06/93		JS				JTL							
REV	REASON FOR ISSUE	DATE	DRN	CKD	BY	ENG	CKD	L.E.	APPD	CNOCC	APPD				

THIS IS A C.A.D. PRODUCED DRAWING AND SHOULD NOT BE MANUALLY MODIFIED

SCOTT		WorleyParsons	
resources & energy			
TITLE PIPING & INSTRUMENT DIAGRAM FUEL GAS KO DRUM			
DRAWING No SCOTT-FW-0000-PR-PD-0070-01			
Z5 NONE			
PROJECT	ORG	AREA/NO	DISC
TYPE	SEQ No	SHI	REV
SCALE			