



- NOTES
- ALL FIGURES ARE GIVEN FOR LIGHT OIL (ISO VG32) AT 55°C.
 - OIL FILTRATION LEVEL TO BE 10 MICRON NOMINAL.
 - NOMINAL SUPPLY PRESSURE IS 1.72 BAR G.
 - PIPEWORK MATERIAL (INCLUDING INSTRUMENTATION) IS GRADE 316 STAINLESS STEEL.
 - PIPE FLANGES (SLIP ON) TO ANSI B16.5 CLASS 150 RF.
 - BEARING Ø229 (9") AT E.E.
 - BEARING Ø229 (9") WITH THRUST BEARING AT N.E.E.
 - N.E.E. REFERS TO NON-EXCITER END (DRIVE END).
 - E.E. REFERS TO EXCITER END.
 - N/O. = NORMALLY OPEN.
 - N/C. = NORMALLY CLOSED.
 - LUB OIL TANK AND RUN DOWN OIL TANKS TO BE GRADE 316 STAINLESS STEEL.
 - TANK HEATER H-LO-1 TO BE INTERLOCKED WITH TANK LEVEL SWITCH (NOT BY BEM).
 - VALVES LO-15/16/27 AND LO-17/18/28 ARE COMBINED IN SINGLE 3 VALVE BLOCKS.

OIL	60 HZ.
FLOW G.P.M.(IMP) L / SEC	
(A) 33	2.5
(B) 20.5	1.55
(C) 9.5	0.72

TAG NUMBER	CODE	PART NO.	DESCRIPTION	FUNCTION	SETTING ETC.
LO-1			VALVE (INTEGRAL WITH P-LO-1)	PRESSURE RELIEF	6.5 BAR G.
LO-2			VALVE (INTEGRAL WITH P-LO-2)	PRESSURE RELIEF	6.5 BAR G.
LO-3			VALVE	NON-RETURN	
LO-4			VALVE	NON-RETURN	
LO-5			VALVE	NON-RETURN	
LO-6			VALVE	FLOW CONTROL	OIL OUT AT 55°C
LO-7			VALVE	FILTER CHANGE OVER	INTEGRAL WITH F-LO-1
LO-8			VALVE (REGULATOR)	PRESSURE REGULATION	4.0 BAR G.
LO-9			VALVE	ISOLATION	N/O.
LO-10			VALVE	ISOLATION	N/O.
LO-11			VALVE	ISOLATION	N/O.
LO-12			VALVE	DRAIN	N/C.
LO-13			VALVE	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-14			VALVE	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-15			VALVE (SEE NOTE 14)	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-16			VALVE (SEE NOTE 14)	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-17			VALVE (SEE NOTE 14)	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-18			VALVE (SEE NOTE 14)	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-19			VALVE	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-20			VALVE	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-21			VALVE	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-22			VALVE	INSTRUMENT BLOCK AND BLEED	N/O. BLOCK/N/C. BLEED
LO-23			VALVE	ISOLATION	N/O.
LO-24			VALVE	ISOLATION	N/O.
LO-25			VALVE	ISOLATION	N/O.
LO-26			VALVE	ISOLATION	N/O.
LO-27			VALVE (SEE NOTE 14)	BALANCING	N/C.
LO-28			VALVE (SEE NOTE 14)	BALANCING	N/C.
LO-29			VALVE	ISOLATION	N/O.
LO-30			VALVE	NON-RETURN	WITH 1.5 BORE BLEED ORIFICE.
LO-31		E3135682-01	VALVE	JACKING OIL N.E.E. BRG	
LO-32		E3135682-01	VALVE	JACKING OIL N.E.E. BRG	
LO-33		E3135682-01	VALVE	JACKING OIL E.E. BRG	
LO-34		E3135682-01	VALVE	JACKING OIL E.E. BRG	
LO-35			VALVE	PRESSURE RELIEF	2.5 BAR G.
LO-36			VALVE (REGULATOR)	PRESSURE REGULATION	2.07 BAR G.
PS-LO-1			PRESSURE SWITCH (A.C.PUMP)	START INHIBIT	CLOSE 1.72 BAR G. RISING
PS-LO-2			PRESSURE SWITCH (MECH PUMP)	AUTO PUMP START	CLOSE 1.72 BAR G. RISING
PS-LO-3			PRESSURE SWITCH	LOW ALARM	CLOSE 2.658 BAR G. RISING
PS-LO-4			PRESSURE SWITCH	LOW TRIP	CLOSE 1.5 BAR G. FALLING
PI-LO-1			PRESSURE GAUGE	PUMP DISCHARGE	Ø100 DIAL 0-7 BAR
PI-LO-2			PRESSURE GAUGE	SYSTEM DELIVERY	Ø100 DIAL 0-7 BAR
PSD-LO-1			PRESSURE SWITCH DIFFERENTIAL	DIRTY FILTER ALARM	OPEN 1.03 BAR G. RISING
PID-LO-1			PRESSURE GAUGE DIFFERENTIAL	DIRTY FILTER INDICATION	Ø100 DIAL 0-1.4 BAR
TS-LO-1			TEMPERATURE SWITCH	LOW/PERMISSIVE START	CLOSE AT 10°C RISING
TS-LO-2			TEMPERATURE SWITCH	HIGH ALARM	OPEN AT 70°C RISING
TS-LO-3			TEMPERATURE SWITCH	HEATER THERMOSTAT	OPEN AT 20°C RISING
FS-LO-1		C3143235-01	FLOAT SWITCH	RUNDOWN TANK FULL	
FS-LO-2		C3143235-01	FLOAT SWITCH	RUNDOWN TANK FULL	
TC-LO-1			MECHANICAL CUTOFF	SAFETY OVER TEMP CUTOFF	
LS-LO-1			LEVEL SWITCH	LOW ALARM	700 LITRE
LS-LO-2			LEVEL SWITCH	LOW TRIP	500 LITRE
RTD 10A/B		E3142431-01	RESIST. TEMP. DETECTOR (DUPLEX)	BRG METAL	TRIP 95°C
RTD 11A/B		E3142431-01	RESIST. TEMP. DETECTOR (DUPLEX)	BRG METAL	TRIP 95°C
RTD 12A/B		E3142437-01	RESIST. TEMP. DETECTOR (DUPLEX)	BRG DRAIN	TRIP 95°C
RTD 13A/B		E3142437-01	RESIST. TEMP. DETECTOR (DUPLEX)	BRG DRAIN	TRIP 95°C
P-LO-1			A.C. PUMP UNIT	STARTUP DELIVERY	
P-LO-2		E3142256-02	SHAFT PUMP UNIT	MAIN DELIVERY	
F-LO-1			FILTER WITH VENT AND DRAIN	BRG. PROTECTION	DUPLEX
C-LO-1			COOLER	COOL OIL	
T-LO-1			TANK	RESERVOIR	CAPACITY (OIL) 1200 LITRE
RD-1		B3143233-01	RUNDOWN TANK	RUNDOWN BELOW 400 RPM	CAPACITY (OIL) 60 LITRE
RD-2		B3143233-12	RUNDOWN TANK	RUNDOWN BELOW 400 RPM	CAPACITY (OIL) 60 LITRE
O-LO-1		E3138475-42	ORIFICE PLATE	FLOW CONTROL	Ø15 BORE
O-LO-2		E3138475-42	ORIFICE PLATE	FLOW CONTROL	Ø15 BORE
O-LO-3		E3119737-59	ORIFICE PLATE	FLOW CONTROL	Ø3 BORE
O-LO-4		E3119737-59	ORIFICE PLATE	FLOW CONTROL	Ø3 BORE
SG-LO-1			SIGHT GLASS	FLOW INSPECTION	
SG-LO-2			SIGHT GLASS	FLOW INSPECTION	
TF-LO-1			TANK FILLER/FILTER BREATHER	TANK FILL POINT/BREATHER	
H-LO-1			HEATER	PRE-HEATING	7 kW
TI-LO-1			TEMPERATURE GAUGE	TEMP. BEFORE COOLER	Ø100 DIAL 0-100°C
TI-LO-2			TEMPERATURE GAUGE	TEMP. AFTER COOLER	Ø100 DIAL 0-100°C
G-LO-1			LEVEL GAUGE	LEVEL INDICATION	0-100% CAL.
QEP		D3138766-02	ELECTROSTATIC PRECIPITATOR		

AS SUPPLIED

Seller shall complete both Sections A & B, sign & date

A All Company comments on previous submission have been fully incorporated

☒ Yes ☐ No ☐ Not Applicable

B There are no design changes, other than incorporation of Company comments, from previous submission

☐ Yes ☒ No

Seller's Verifying Statement:

This document accurately represents the "As Supplied" condition of the Work

Sellers Authorised Signature: *[Signature]* Date: 16/6/92

CUSTOMER : RUSTON GAS TURBINES
PROJECT : AMERADA HESS - SCOTT FIELD
FRAME SIZE : B0AX7-167PRH
MACHINE NO. : 38046A-1G-2G,-3G.

COMPANY RETURN CODES

☒ 1. Accepted "As Supplied"

☐ 2. Accepted - No Comments

☐ 3. Qualified Acceptance - Minor Comments. Revise & Resubmit as "As Supplied" Work May Proceed

☐ 4. Qualified Acceptance - Minor Comments. Revise & Resubmit To Obtain Code 2 Work May Proceed

☐ 5. Qualified Acceptance - Major Comments. Revise & Resubmit To Obtain Code 2 Work May Proceed

☐ 6. Rejected - Revise & Resubmit Immediately Work May Not Proceed in the Affected Areas

☐ 7. Review Not Required

Company's Signature: *[Signature]* Date: 16/6/92

AMERADA HESS LIMITED

SCOTT FIELD DEVELOPMENT

Package Desc: MAIN POWER GENERATION PACKAGE.

Equip Nos: GY4701 A/B/C

SDRS Codes: D.OI

Module: UI | Sheet of 1

Purchase Order No: P.0001 | Document No: D 0 0 0 1 | No: 0 4

MANUFACTURING TOL'S TO B.S. 942 L45

1st CONT No: 01/38046A

DRN: GP

APP: VJB

SCALE: NTS

DATE: 22-9-90

DEPT: DAX

ISSUE: 9

SCHEMATIC ARRANGEMENT OF LUBRICATION SYSTEM.

Sheet 1/1

CODE: AO 3141931

REV: 1	DATE: 16/6/92	BY: VJB	DESCRIPTION: PS-LO-3 WAS SET AT 1.4 BAR G. RISING AND 1.24 BAR G. FALLING.
REV: 2	DATE: 16/6/92	BY: VJB	DESCRIPTION: LO-1/2 WERE SET AT 4.5 BAR. NOTE 14 ADDED. LO-30 1.5 BORE BLEED ORIFICE ADDED.
REV: 3	DATE: 16/6/92	BY: VJB	DESCRIPTION: LO-35 AND LO-36 ADDED. PART NUMBERS ADDED.
REV: 4	DATE: 16/6/92	BY: VJB	DESCRIPTION: LO-27/28 WERE SET AT 1.5 BAR G. RISING AND 1.24 BAR G. FALLING. PS-LO-1 WAS AS PUMP MONITOR AND OPEN/CLOSING. C-LO-1 FLOW WAS 150L/MIN. SG-LO-1 DELETED. F-LO-1/2 AND C-LO-1 WERE SET ADDED. C-LO-1 WATER COOL SIZE AND RPS ADDED. L-OR (REGULATOR) ADDED.
REV: 5	DATE: 16/6/92	BY: VJB	DESCRIPTION: REDRAWN WITH VALVES LO-23 TO LO-34 INCL. ADDED. ELECTROSTATIC PRECIPITATOR ADDED.
REV: 6	DATE: 16/6/92	BY: VJB	DESCRIPTION: DRAIN TO MODULE WAS 3" N.B. NOW 4" N.B.