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G-PROMS

PROCESS MODEL

VACUUM USERS (VAC)
R40-001

VACUUM USERS
FINE CHEMICALS
ROYSTON | 3CR
TP

DRAUGHT AMMONIA
FROM 3CR (DAM)
14

RELIEF
FROM ANNEX BUILDING
PHASE 2
PHASE 1

RELIEF FROM MFB

DRAUGHT CHLORINE
FROM ANNEX BUILDING (DCH)
PHASE 2
PHASE 1

DRAUGHT CHLORINE
FROM MFB (DCH)
8
2
12

VACUUM EXHAUST FROM
VACUUM PUMP PACKAGE
T20-001
3

RELIEF FROM
ANNEX
PHASE 2
PHASE 1

RELIEF FROM MFB

DRAUGHT SCRUB
FROM ANNEX BUILDING (DSC)
PHASE 2
PHASE 1

DRAUGHT SCRUB
FROM MFB (DSC)
7
1
12

VACUUM WASTE TO
SHA BUFFER TNK750
V10-001

IBC

SCRUBBER CATCHPOTS WASTE TO
SHA BUFFER TNK750
V10-001

IBC

Ru CAUSTIC SCRUBBER PURGE FROM
Ru CAUSTIC SCRUBBER CATCH TANK TNK270
F20-002

SCRUBBER PURGE FROM WLR/AURUBIS
CONDITIONING NOX SCRUBBER SCR132
C20-001

PURGE FROM
OSMIUM SCRUBBER SCR063
B10-002

MFB | OUTDOOR

13

9

Design Note:
ANNEX Draft Scrub, Draft Chlorine and Relief Routing.
ALL Process and exhaust gases, fumes are to be routed **back through the MFB building ducting and pipework infrastructure into the MAIN scrubber package located on the North side of the completed MFD building.**

No exhausts are planned for ANNEX release. There is to be 1 x decontamination room clean air vents located on the Annex roof @ circa 3m height in keeping with the surrounding equipment cubicles, enclosures and stair well elevation.

DRAUGHT AND VACUUM
SCRUBBER PACKAGE

VENDOR PACKAGE
HOLD 6

ATM

STK701
HOLD 1

VAPOUR FROM
FIRE RELIEF SEAL POT TNK067
B25-001

TO VACUUM PUMP
PACKAGE
T20-001

AIN

WPR

SHY

STM

SUL

TO SHA BUFFER
TANK TNK750
V10-001

APA

TNK705
EDU705

STM

WPR

SP1

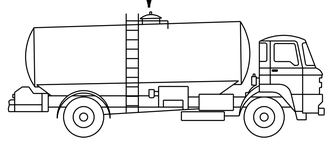
P705

P704

3CR | ROYSTON
TP

VRP BUND
CAUSTIC TANKS

TO BUND



GENERAL NOTES:

1. ALL EQUIPMENT TAGS ARE PREFIXED WITH 02-3CR-T10.
2. ALL AUTONOMOUS CONTROL LOOPS AND SEQUENCE RELATED VALVING ARE EXCLUDED FROM THE PFD DUE TO THE COMPLEXITY OF THE DIFFERENT SEQUENCE STEPS. REFER TO T10 P&IDS AND THE T SECTION PROCESS CONTROL NARRATIVE. X2JM-270-T00-RPT-001-0001, WHICH INCLUDES CONTROL SYSTEM OVERVIEW SKETCHES.

NOTES.

1. THE DRAUGHT SCRUBBERS, VACUUM SCRUBBER AND THEIR ASSOCIATED FANS, STACKS, AND PUMPS SHALL BE LOCATED IN THE ALKALI BUND. THE WASTE CAUSTIC TANK AND IT'S ASSOCIATED PUMPS ARE TO ALSO BE LOCATED IN THE ALKALI BUND.
2. DELETED.
3. DELETED.
4. DELETED.
5. DELETED.
6. DELETED.
7. THE FOLLOWING AREAS VENT TO THE DRAUGHT SCRUBBER.
 B10, B15, B20, B25, B30, B60, C10, C20, C30,D60, D10, D20, D30, D50, D70, D80,E10, E30,E50, F10, F20, F30, G10, G20, J10, J30, J40,K10, K20, K30, K40, L10, R10, R20 & R50.
8. THE FOLLOWING AREAS VENT TO THE HIGH CHLORINE (DRAUGHT SCRUBBER): B10, B30, C10, D20, D30, D60,D80, E20, E50, F30 & J30.
9. DELETED.
10. DELETED.
11. DELETED.
12. RELIEF HEADER SHALL TIE IN TO THE DRAUGHT HEADER AT MINIMUM DISTANCE FROM THE CATCH POT.
13. THE AMMONIA SCRUBBER AND IT'S ASSOCIATED FANS, STACK, PUMPS, AND CATCHPOT SHALL BE LOCATED IN THE ACIDIC BUND. THE VACUUM, DRAUGHT, AND HIGH CHLORINE CATCHPOTS TO ALSO BE LOCATED IN THE ACIDIC BUND.
14. THE FOLLOWING AREAS VENT TO THE DRAUGHT AMMONIA SCRUBBER. C10, D20, D70, D80, E30, E40, E50, R10 & R50.

HOLDS.

1. REQUIREMENT FOR STACK VS PIPE TO ATMOSPHERE TO BE CONFIRMED.
2. RESOLVED.
3. RESOLVED.
4. RESOLVED.
5. RESOLVED.
6. PACKAGE TAG NUMBER.

ITEM NUMBER	P704	P705	TNK705	TNK710	EDU705	STK701																						
TITLE	WASTE CAUSTIC TANK DRAIN PUMP	DRAUGHT SCRUBBER SUMP PUMP	WASTE CAUSTIC TANK	DRAUGHT CHLORINE CATCHPOT	STEAM EDUCTOR TNK705	ATMOSPHERIC VENT																						
REMARKS	CENTRIFUGAL	DIAPHRAGM																										

Neil Horwood
Digitally signed by Neil Horwood
Date: 2023.10.27 08:13:24 +01'00'

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REVISION	DRAWN BY & DATE	ENGINEERED BY & DATE	CHECKED BY & DATE	CHECKED BY EC&I & DATE	APPROVED BY & DATE	APPROVED BY & DATE	APPROVED BY & DATE	ISSUED TO:	ENGINEERING	OPERATIONS	PROCESS SAFETY	PROJECT MANAGEMENT	ALTERATIONS
D3	MTT 15-09-23	AD 15-09-23	PP PJG 15-09-23		MD 15-09-23	RS 15-09-23							ISSUED FOR DESIGN
D2	AAB 27-02-23	AC 27-02-23	HTM 27-02-23		MD 27-02-23	RS 27-02-23							ISSUED FOR HAZOP
D1	ABF 29-04-22	HTM 29-04-22	RJ 29-04-22		MD 29-04-22	RS 29-04-22							ISSUED FOR CLIENT REVIEW
D0	FAM 15-01-21	MSR 15-01-21	AUJ 15-01-21	TW 15-01-21	MTJ 19-01-21								ISSUED FOR DETAILED DESIGN

PROJECT	TITLE	SCALE
JOHNSON MATTHEY 3CR PROJECT	PROCESS FLOW DIAGRAM T10 DRAUGHT SCRUBBING	N.T.S.
CAD NUMBER: 02-3CR-T10-PFD001_RevD3.dwg	DRAWING NUMBER: 02-3CR-T10-PFD001	SIZE: A1
		REV: D3

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