

LOX TANK SAFETY ZONE AREAS (2,000–20,000 ltrs)

1m AREA

– NON FLAMMABLE CYLINDER STORAGE

5m AREA

– SMALL STOCKS OF COMBUSTIBLE MATERIAL, SITE HUTS, SHEDS, etc.

– AREAS WHERE OPEN FLAMES, SMOKING, etc, ARE PERMITTED

– FUEL GAS VENT PIPES

– PROCESS EQUIPMENT/MACHINERY NOT PART OF THIS INSTALLATION

– MV & HV SUB STATIONS

– PUBLIC ROADS

– PROPERTY BOUNDARIES

– VEHICLE PARKING AREAS

– PITS, DUCTS & SURFACE WATER DRAINS (UNTRAPPED), OPENINGS OF SYSTEMS BELOW GROUND LEVEL

– CONTINUOUS SECTIONS OF PIPELINES CONTAINING FLAMMABLE GASES/LIQUIDS NOT INTERRUPTED BY FITTINGS, eg, VALVES, UNIONS, FLANGES, etc.

6m AREA

– FLANGES, UNIONS IN PIPELINES CONTAINING FLAMMABLE GASES OR LIQUIDS

7m AREA

– OPENINGS, WINDOWS & ESCAPE ROUTES FROM BUILDINGS, AND AREAS WHERE EMPLOYEES & VISITORS ARE LIKELY TO CONGREGATE

– COMPRESSOR, VENTILATOR & AIR CONDITIONING INTAKES

7.5m AREA

– LPG/BULK FLAMMABLE LIQUID STORAGE UP TO 4 TONNES

8m AREA

– FLAMMABLE GAS CYLINDER STORAGE

10m AREA

– PLACES OF PUBLIC ASSEMBLY

– RAILWAY LINES

15m AREA

– LARGE WOODEN STRUCTURES, TIMBER YARDS, ETC

LOX TANK SAFETY ZONE AREAS (20,000–125,000 ltrs)

1m AREA

– NON FLAMMABLE CYLINDER STORAGE

6m AREA

– CONTINUOUS SECTIONS OF PIPELINES CONTAINING FLAMMABLE GASES/LIQUIDS NOT INTERRUPTED BY FITTINGS, eg, VALVES, UNIONS, FLANGES, etc.

– FLANGES, UNIONS IN PIPELINES CONTAINING FLAMMABLE GASES OR LIQUIDS

7.5m AREA

– LPG/BULK FLAMMABLE LIQUID STORAGE UP TO 4 TONNES

8m AREA

– SMALL STOCKS OF COMBUSTIBLE MATERIAL, SITE HUTS, SHEDS, ETC.

– AREAS WHERE OPEN FLAMES, SMOKING, ETC, ARE PERMITTED

– FUEL GAS VENT PIPES

– PROCESS EQUIPMENT/MACHINERY NOT PART OF THIS INSTALLATION

– MV & HV SUB STATIONS

– PUBLIC ROADS

– PROPERTY BOUNDARIES

– VEHICLE PARKING AREAS (OTHER THAN AUTHORISED)

– PITS, DUCTS & SURFACE WATER DRAINS (UNTRAPPED), OPENINGS OF SYSTEMS BELOW GROUND LEVEL

– OPENINGS, WINDOWS & ESCAPE ROUTES FROM BUILDINGS, AND AREAS WHERE EMPLOYEES & VISITORS ARE LIKELY TO CONGREGATE

– COMPRESSOR, VENTILATOR & AIR CONDITIONING INTAKES

– FLAMMABLE GAS CYLINDER STORAGE

15m AREA

– LARGE WOODEN STRUCTURES, TIMBER YARDS, etc

– PLACES OF PUBLIC ASSEMBLY

– RAILWAY LINES

NOTES

1. DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.

2. TANK PLINTH TO BE IN ACCORDANCE WITH AIR PRODUCTS TANK PLINTH SPECIFICATIONS.

3. INSTALLATION TO COMPLY WITH BCGA CODE OF PRACTICE CP36: 'BULK CRYOGENIC LIQUID STORAGE AT USER PREMISES'.

4. ALL WEIGHTS, MEASURES & POSITIONS OF EQUIPMENT SHOWN ARE APPROX. & MAY BE SUBJECT TO CHANGE.

5. CONSIDERATION TO BE GIVEN TO DELIVERY VEHICLE POSITION DURING OFF LOADING OF THE PRODUCT.

6. FOR INFORMATION REGARDING THE INSTALLATION REFER TO THE TECHNICAL SPECIFICATION.

7. PLINTH TO BE 350mm THICK MINIMUM.

8.  DENOTES LIGHTING FOR NIGHT TIME DELIVERY (BY CUSTOMER):150 WATT SON–TXL (HIGH PRESSURE SODIUM FLOODLIGHT MOUNTED ON 3.5m STANCHION, OR 100 LUX ILLUMINATION LEVEL ON FRONT OF TANK.

9. IF REQUIRED A 2m HIGH NON–COMBUSTIBLE SECURITY FENCE/CAGE TO BE INSTALLED FOLLOWING INSTALLATION TO PREVENT UNAUTHORISED ACCESS TO EQUIPMENT (BY CUSTOMER).

10. 2m WIDE DOUBLE 180° OPENING GATES FOR ACCESS TO TANKS, POSITIONED CENTRALLY TO TANKS.

11. 800mm WIDE EMERGENCY EXIT.

12. DENOTES VMI TELEMETRY SOCKET (BY CUSTOMER):
 110/230V SINGLE PHASE POWER SUPPLY TERMINATED IN AN IP67 BS4343 SURFACE MOUNTED SOCKET RATED AT 16A, IN ACCORDANCE WITH AIR PRODUCTS SPECIFICATION F2618/5.

13. DENOTES TANKER CEEFORM SOCKET (BY CUSTOMER):
 415V 63A 50Hz 5–PIN (3PH+N+E) BS4343 IP67 CEEFORM 17 (REFER TO SPECIFICATION 17.005).

14. DENOTES VAPORISER CHANGEOVER PANEL POWER SOCKET (BY CUSTOMER):
 230V AC SINGLE PHASE SUPPLY RATED AT 16A.

15. DENOTES HP18 ELECTRICAL SUPPLY (BY CUSTOMER):
 415V 63A 50HZ 5–PIN (3PH+N+E)

16.DENOTES AIR PRODUCTS BATTERY LIMIT (28mm Cu STUB)

The diagram illustrates the layout for two LOX tanks at Whiston Hospital, Prescot. It shows the 50cm LOX Tank #1600 and the 210cm LOX Tank #2610, both with their respective safety zones (5m and 8m). Key features include a concrete delivery apron, a vaporiser changeover panel, a telemetry socket, and a battery limit. Dimensions for the tanks and safety zones are provided. A north arrow and a scale bar (0 to 10m) are also included. The diagram is oriented with the tanks' front facing the bottom of the sheet.

50CM TANK 7m SAFETY AREA

TANK 5m SAFETY AREA

210CM TANK 8m SAFETY AREA

NOTE 11

VAPORISER CHANGEOVER

50CM LOX TANK #1600

210CM LOX TANK #2610

CONCRETE DELIVERY APRON

NOTE 10

NOTE 10

0 1 2 3 4 5 10m

REFER TO SHEET 2 FOR PLINTH LOCATION

						U.K. CUSTOMER ENGINEERING		
						THIS DRAWING IS THE PROPERTY OF AIR PRODUCTS PLC AND IT MUST NOT BE REPRODUCED OR USED FOR PURPOSES OTHER THAN FOR WHICH IT IS SUPPLIED.		
						TITLE: LAYOUT FOR 50CM/210CM MEDIOX TANKS INSTALLATION AT WHISTON HOSPITAL, PRESCOT		
						SCALE	PROJECT No.	DRG. No. 0807471D
						1:100	TBA	CAD Ref. 80747101
REV	REVISION		DATE	DRAWN	CHKD	APPD	FUNCTIONAL LOCATION: TBA	
							SHT. 1 OF 2	