

- NOTES**
- HAZARDOUS AREA CLASSIFICATION TO AS/NZS 2430.3 2004. TO BE READ TOGETHER WITH HAZARDOUS ATMOSPHERE ZONES DATASHEET - Sht 3.**
    - ZONE 0** [Pattern] FLAMMABLE ATMOSPHERE IS LIKELY TO EXIST CONTINUOUSLY
    - ZONE 1** [Pattern] FLAMMABLE ATMOSPHERE IS LIKELY TO EXIST UNDER NORMAL CONDITIONS
    - ZONE 2** [Pattern] FLAMMABLE ATMOSPHERE IS LIKELY TO EXIST UNDER ABNORMAL CONDITIONS
  - PUMPS**
    - ZONE 1:** 0.3m ALL DIRECTIONS FROM PUMP SEAL
    - ZONE 2:** 2m ABOVE GROUND LEVEL
  - TANKS**
    - ZONE 1:** 3m ALL DIRECTIONS FROM TANK & VENTS
    - ZONE 2:** 4m ABOVE GROUND LEVEL INSIDE BUND
  - PRODUCT RECOVERY TANK**
    - ZONE 1:** 1.5m ALL DIRECTIONS FROM VENT
    - ZONE 2:** 1.5m RADIUS DOWN TO GROUND LEVEL
  - PRODUCT PIPEWORK**
    - ZONE 2:** 1.5m ALL DIRECTIONS FROM PIPEWORK OR 2m ABOVE GROUND LEVEL




TYPICAL EXTENT OF ZONE WHEN TWO TANKERS ARE LOADING AT GANTRY REFER Sht 2 FOR TANKER ZONE DETAILS

Tab F-001 Sht 1						
Scales						
1:200 (A1)						
1:400 (A3)						
Original Size A1						
Rev	Revision Description	Designed	Drawn	Checked	Approved	Date
A	FOR DESIGN - DWG NO CHANGED	GJF	CPR			23/3/00

<b>HAZARDOUS AREA DRAWING</b>		Status	<b>PRELIMINARY</b>
		Drawing Number	
		Revision	<b>A</b>

**NOTES**

1. HAZARDOUS AREA CLASSIFICATION TO AS/NZS 2430.3 2004. TO BE READ TOGETHER WITH HAZARDOUS ATMOSPHERE ZONES DATASHEET - Sht 3.

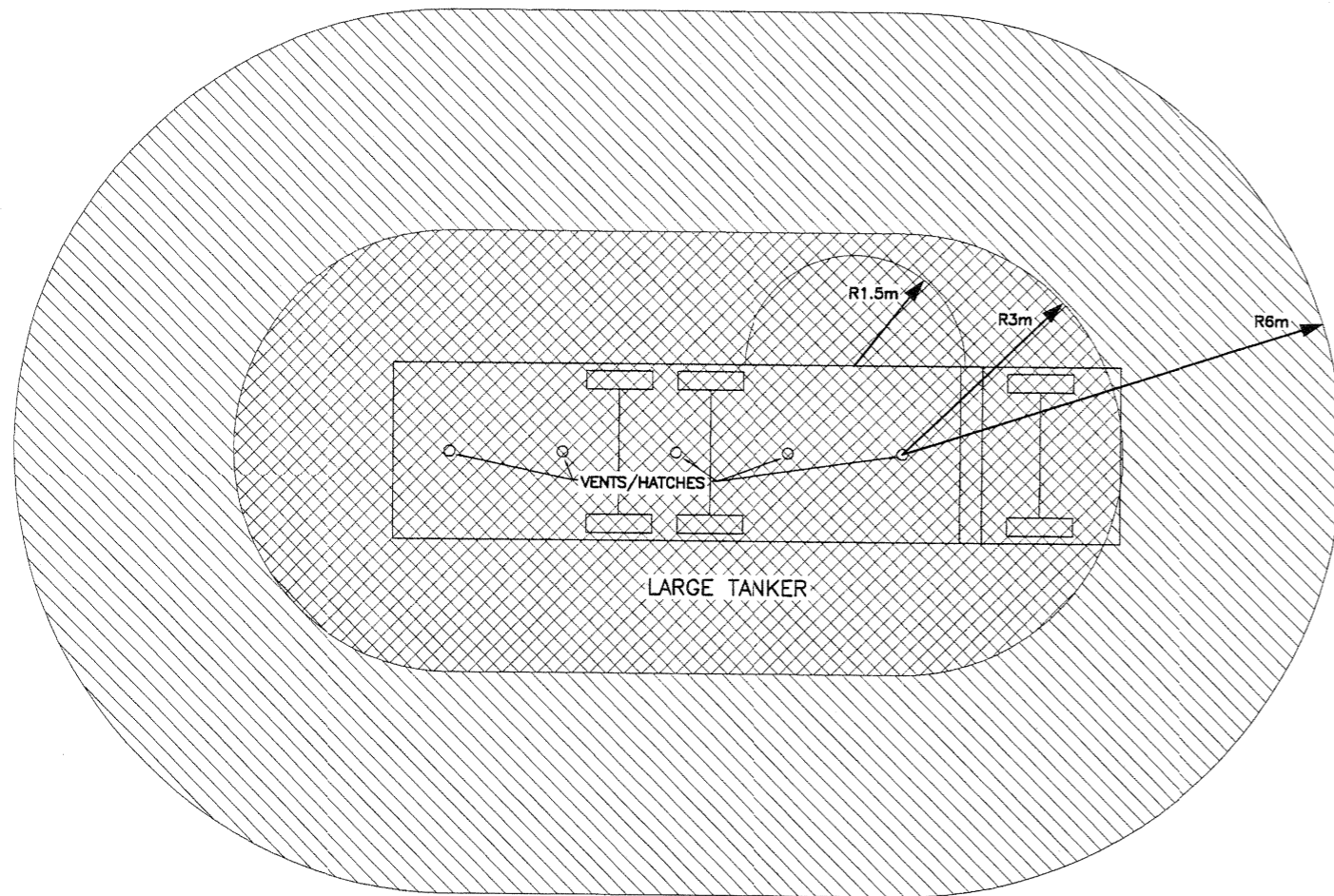
- ZONE 0  FLAMMABLE ATMOSPHERE IS LIKELY TO EXIST CONTINUOUSLY
- ZONE 1  FLAMMABLE ATMOSPHERE IS LIKELY TO EXIST UNDER NORMAL CONDITIONS
- ZONE 2  FLAMMABLE ATMOSPHERE IS LIKELY TO EXIST UNDER ABNORMAL CONDITIONS

2. **TANKER LOADING**

- ZONE 1: 1.5m ABOVE VENTS/ HATCHES AND DOWN TO GROUND LEVEL 1.5m ALL DIRECTIONS FROM HOSE CONNECTION POINTS
- ZONE 2: 3m ABOVE GROUND LEVEL

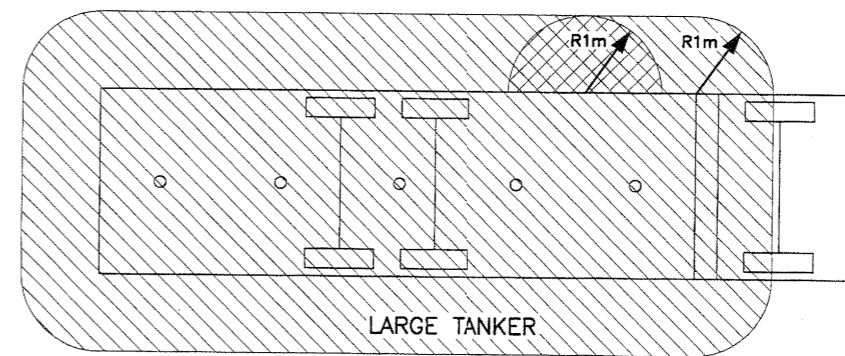
3. **TANKER UNLOADING**

- HAZARDOUS AREAS:- EXIST DURING AND 5 MINUTES AFTER UNLOADING, 1m FROM TANKER AND HOSE CONNECTION POINT.
- ZONE 1: 1m ALL DIRECTIONS FROM HOSE CONNECTION POINTS
- ZONE 2: 0.5m ABOVE TANKER AND DOWN TO GROUND LEVEL



**TANKER LOADING**

REFER TO NOTE 2



**TANKER UNLOADING**

REFER TO NOTE 3

Tab						Original Size
Scales						1:200 (A1)
						1:400 (A3)
A	FOR DESIGN - DWG NO CHANGED	GJF	CPR	<i>[Signature]</i>	23/3/06	Original Size A1
Rev	Revision Description	Designed	Drawn	Checked	Approved	Date

<b>HAZARDOUS AREA DRAWING</b>		Status	<b>PRELIMINARY</b>
		Drawing Number	Revision
			<b>A</b>

Plant Area	Flammable Material								Process Conditions		Ventilation	Source of Release		Hazardous Area Distances						Code Ref AS/NZS 2430.3 2004	Comments			
	Name	Name	CAS No.	Volume	B. Pt. (°C)	Fl.Pt. (°C)	Auto lg.n Temp. (°C)	LEL (% by Vol.)	Vap. SG (Air = 1)	Elec. Equip. Class.n to AS 2380.1		Temp. (°C)	Press. (kPa.g)	Ref. AS/NZS 2430.3.1 2004 App. B	Description	Grade	Zone 0		Zone 1			Zone 2		
																	Horiz.	Vert.	Horiz.			Vert.	Horiz.	Vert.
BULK TANKS	...	8008-20-6	T51 - 1,800 m³ T52 - 1,800 m³ T53 - 1,800 m³ T57 - 5,200 m³	150	>38	210	0.7	4.5	T3 IIA	AMB.	ATM.	ADEQUATE	TANK VENTS	PRIM.	INSIDE TANK	3m ALL DIRECTIONS FROM VENTS & TANK SHELL		INSIDE BUND	4m ABOVE G.L.		PART 3.1 1 (i)	UK IP Code of Practice Part 15 2nd Ed.n 2002 Cl. 3.2, Fig. 3.1		
	UK IP Code of Practice Part 15 2nd Ed.n 2002 "Area Classification Code ...". Tables A2 & A3 designate ... as a Class II(1) fluid. Clause 3.2 states " ... liquids stored under Class II(1) or III(1) conditions will not normally entail a surrounding external hazard zone requirement". A conservative approach has been taken to apply a Zone 1 area around the tank and a Zone 2 area within the bund.																							
PIPEWORK AND FITTINGS	...	8008-20-6		150	>38	210	0.7	4.5	T3 IIA	AMB.	1000	ADEQUATE	PIPING JOINTS	PRIM.	---	---		1.5m ALL DIRECTIONS FROM PIPING JOINTS		PART3.3 Cl. 4.8				
	...	68425-29-6		40	-40	440	1.4	>3	T2 IIA															
PUMPS	...	8008-20-6		150	>38	210	0.7	4.5	T3 IIA	AMB.	1000	ADEQUATE	PUMP SEALS & PIPING JOINTS	PRIM.	---	0.3m ALL DIRECTIONS FROM SEAL/GLAND		8m	2m ABOVE GL		PART3.3 Cl. 4.5 (a)			
	...	68425-29-6		40	-40	440	1.4	>3	T2 IIA															
PRODUCT RECOVERY TANK	...	8008-20-6		150	>38	210	0.7	4.5	T3 IIA	AMB.	ATM.	ADEQUATE	TANK VENT	PRIM.	INSIDE TANK	1.5m ALL DIRECTIONS FROM VENT		1.5m	FROM VENT DOWN TO GL		PART3.3 Cl. 4.2 (b)			
TANKER LOADING	...	8008-20-6		150	>38	210	0.7	4.5	T3 IIA	AMB.	1000	ADEQUATE	VENTS & HOSE CONNECTIONS	PRIM.	---	3m FROM VENTS & HATCHES	1.5m ABOVE VENTS & HATCHES 1.5m ALL DIRECTIONS FORM HOSE CONN. POINT		6m	3m ABOVE GL		PART3.3 Cl. 4.6.2 (b)	TANKER LOADING WITHOUT VAPOUR RECOVERY	
	...	68425-29-6	T58 - 100 m³	40	-40	440	1.4	>3	T2 IIA															
TANKER UNLOADING	...	8008-20-6		150	>38	210	0.7	4.5	T3 IIA	AMB.	1000	ADEQUATE	VENTS & HOSE CONNECTIONS	PRIM.	---	1.5m ALL DIRECTIONS FROM HOSE CONN.		1m	0.5m ABOVE VENTS & HATCHES DOWN TO GL		PART3.3 Cl. 4.6.3	TANKER LOADING WITHOUT VAPOUR RECOVERY		
	...	68425-29-6	T58 - 100 m³	40	-40	440	1.4	>3	T2 IIA															

Tab	...					
Scales	N.T.S.					
Original Size	A1					
Rev	Description	Designed	Drawn	Checked	Approved	Date
A	FOR DESIGN - DWG NO CHANGED	GJF	CPR			23/3/06

DEVELOPMENT	
HAZARDOUS ATMOSPHERE ZONES DATA SHEET	Status PRELIMINARY
Drawing Number F-003/3	Revision A