


HS607	
Risk Management Checklist for Storage of DGs: Category: Flammable Liquid Roofed Store	

Checklist completed by: _____

Building Name :	
School/Work Unit :	
Room Number :	
Contact Person :	
Date :	

Standard Controls	Yes	No	Comment	Recommended Action
<i>NSW Fire Brigade Access</i> 1. Is the depot located on a level that is directly accessible from street level?				
<i>Separation Distances</i> 2. Package Storage – is the depot located more than 3m from any office, teaching space, main thoroughfare or area where groups of students or members of the public gather? 3. Package Storage with Decanting - is the depot located more than 8m from any office, teaching space, main thoroughfare or areas where groups of students or members of the public gather? 4. If no, do all depot openings (e.g. doors) meet the required separation distances?				
Construction Requirements				
5. Does the depot have the following fire ratings: 6. Separating walls = 240/240/240 (4 hour rating) 7. Walls and roof = 180/180/180 (3 hour rating) 8. Any duct that passes through = -/180/180				
9. Do the doors open outwards? 10. Are they fitted with an automatic door closer? 11. Do they have a fire rating of -/120/30?				
12. Is the floor material and bund wall impervious to the materials being stored?				

Standard Controls	Yes	No	Comment	Recommended Action
Ventilation Requirements				
13. Is the depot naturally ventilated?				
14. Do the size and positioning of the vents comply with AS1940? 15. High and Low level vents in two opposing walls (ideally on the longest wall)? 16. Vent size greater than 0.1m ² ? 17. Less than 3m between vents?				
18. Is the depot mechanically ventilated?				
19. Does the design and capacity of the mechanical ventilation system comply with AS1940? 20. Is air supply and extraction on opposing walls, positioned at low level (just above the bund level)? 21. No more than 5m between any two supply inlets or extraction outlets? 22. Fans adjusted to provide negative pressure, i.e. the exhaust rate must be greater than the rate of fresh air supply)? 23. Minimum air velocity at the supply ducts of 300m/min? 24. Exhaust rate of 0.3m ³ /m ² /min, or floor space or 5m ³ /min? 25. Exhaust duct terminates in open air more than 2m from any opening to the building, 3m above the ground and more than 5m from the fresh air intake? 26. Air intake is located more than 5m from an exhaust flue?				
Hazardous Area Classification <i>See AS:60079 Electrical apparatus for explosive gas atmospheres – Part 10 Classification of hazardous areas</i>				
<i>Internal Hazardous Zones</i> 27. Are all ignition sources excluded from the external Hazardous Zone? 28. Are all internal and associated electrical installations (lighting, switches, ventilation fans and controls) appropriate for operation in a flammable/explosive environment? 29. The following rating is appropriate for most general purpose flammable liquid depots: [Zone 1, IIB (Gas Group), T4 (Temperature Class)]				
<i>External Hazardous Zones</i> 30. Are all electrical installations within this zone rated for use in a flammable/explosive				

Standard Controls	Yes	No	Comment	Recommended Action
<p>environment?</p> <p>31. Package Storage – a Zone 2 extends 3m laterally from any opening in the depot, from ground level to 1m above the ground?</p> <p>32. Package Storage with Decanting - a Zone 2 extends 8m laterally from any opening in the depot, from ground level to 1m above the ground?</p> <p>33. The following rating is appropriate for electrical equipment used within the external zone of most flammable liquid depots: [Zone 2, IIB (Gas Group), T4 (Temperature Class)]</p>			Check what happens outside the store within the 8m distance	Procedure that forklift is not used during decanting. Forklift not being charged whilst decanting occurring. Vigilance re: 'no smoking' for couriers, contractors etc.
Fire Protection				
34. Does the depot have a fire detection system (smoke, thermal or sprinkler system) that is linked to a Building Fire Indicator Panel?				Check that it is linked to Security
35. If the depot is protected by a sprinkler system, will the bund hold the water output of the system if allowed to run for 20 mins?				
36. Is there one powder-type Fire Extinguisher and one foam-type Fire Extinguisher located more than 3m, but not more than 10m from the depot?				

Specific comment / action /observation etc.