



SAFETY AUDIT CHECK LIST

For

AMMONIA REFRIGERATION PLANTS

The following sheet has been compiled to be used as an easy reference checklist for refrigeration plant users. This sheet forming part of a specific ammonia plant safety check is supported by a more detailed audit document. This format as been developed by ISECO has gained wide industry support as an easy to follow method and guide for identifying compliance, non-compliance areas as well as providing a working brief for carrying out ongoing plant safety enhancements.

Nevertheless suitably qualified personnel experienced with the design, installation, operation and maintenance of ammonia refrigeration systems should only carry out an audit.

The checklist is based on the requirements of AS/NZS1677.2:1998 Safety requirements for fixed applications, and are intended to be used in conjunction with that standard. A number of additional compliance requirements relating to local regulations for the operation of such facilities are also included. This list may not be considered completely comprehensive as all plants are unique and may pose risks that cannot be covered by a generic approach. This list is not a substitute for sound engineering practice, experience and appropriate risk management practices.

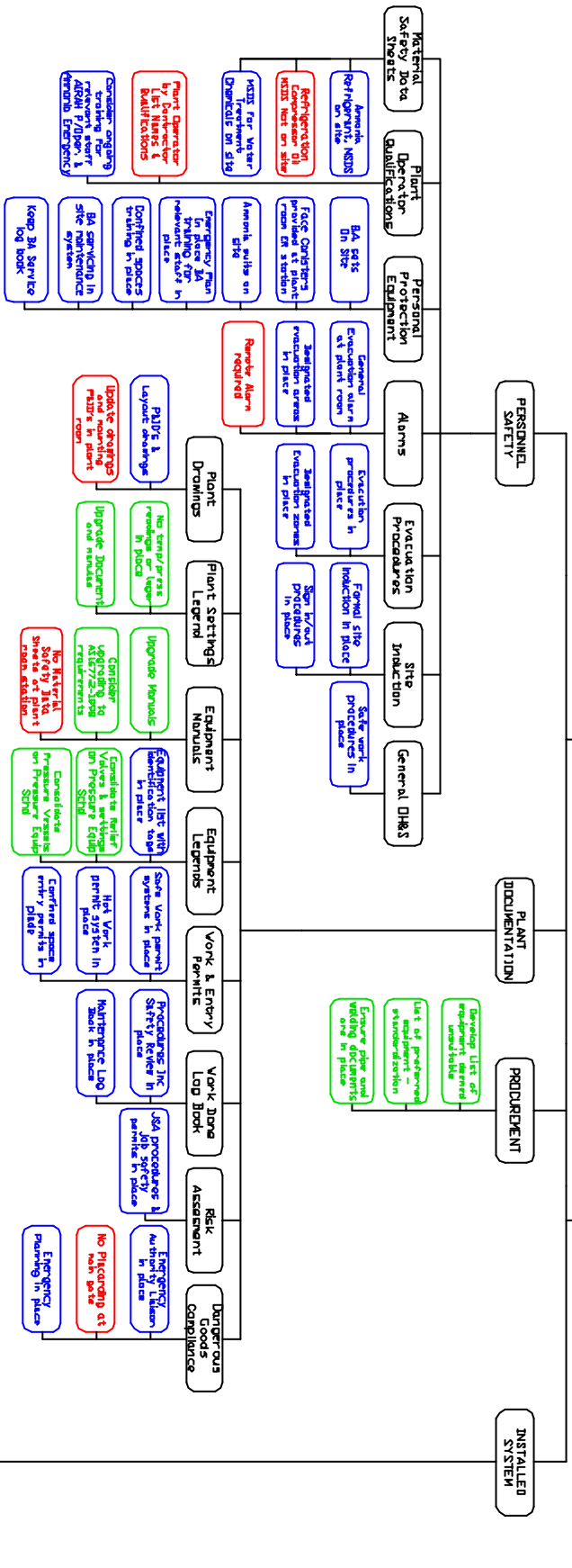
Note that plants installed, and modifications to existing plants performed since the publication of AS/NZS1677.2:1998 on the 5th of January 1998 should comply with the checklist.

Plants or sections of plants installed prior to that date, in our view should conform with the version of the standard current at the time of installation.

ISECO offers an independent ammonia plant safety audit service. The outcomes from our audit and supplied report will provide a document that can be used as a tool for ongoing safety management, planning and enhancement of your plant.

**ARMONIA REFRIGERATION
PLANT - SAFETY
AUDIT CHECK LIST
AS167780998**

Refer to the
plant ammonia
charge approach
2004-8



Category	Item	Findings	
PERSONNEL SAFETY	Material Safety Data Sheets	Review for updates	
	Plant Detection Qualifications	Check for valid certificates	
	Personal Protection Equipment	Ensure correct use of PPE	
	Alarms	Test alarm systems regularly	
	Execution Procedures	Review and update procedures	
	Site Induction	Ensure all workers are inducted	
	General DGAs	Review DGAs for compliance	
	PLANT DOCUMENTATION	Plant Drawings	Check for accuracy and updates
		Plant Settings	Review settings for safety
		Equipment Manuals	Ensure manuals are available
Equipment Logbooks		Check logbooks for entries	
Work & Entry Permits		Review permit systems	
Work Done Log Book		Check logbook for work done	
Risk Assessment		Review risk assessments	
Dangerous Goods Compliance		Check compliance with regulations	
PROCEDURE		Develop List of equipment altered installed	Not in place
		List of procedure altered installed	Not in place
	Ensure Alter and welding documents are in place	Not in place	
	INSTALLED SYSTEM	General Safety	Check for safety features
		Plant Detection Qualifications	Check for valid certificates
		Personal Protection Equipment	Ensure correct use of PPE
		Alarms	Test alarm systems regularly
		Execution Procedures	Review and update procedures
		Site Induction	Ensure all workers are inducted
		General DGAs	Review DGAs for compliance
Plant Drawings		Check for accuracy and updates	
Plant Settings		Review settings for safety	
Equipment Manuals		Ensure manuals are available	

Review Key

- Blue line: None Comply
- Green line: Items for Review
- Red line: Items that do not Comply

Drawing Title: Armonia Plant Safety Review
 Drawing Number: 01-000-0008
 Scale: 1:1
 Date: 09/04/08
 Project Title: ESCO Contracting Services
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