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REDUCTION IN LIABILITY & EXPOSURE TO FINES:

Major categories where citations have been issued by OSHA over the last 3 years for PSM violations. The top 4 categories, which comprise 73.1% of all the PSM citations:

- Process Safety Information
- Mechanical Integrity
- Operating Procedures
- Process Hazard Analysis

Packaged systems provide many features, attributes and documentation that will satisfy the requirements and criteria for these PSM elements and as a result will significantly reduce an owner's liability related to these elements & reduce their exposure to fines

All ChemNEP Citations by PSM Element

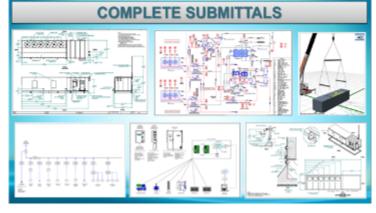
Element	Description	% of PSM Violations			
d	Process Safety Information	23.7			
j	Mechanical Integrity	22.5			
f	Operating Procedures	13.6			
е	Process Hazard Analysis	13.3			
I	Management of Change	6.9			
0	Compliance Audits	4.1			
g	Training	3.5			
n	Emergency Planning & Response	3.2			
h	Contractors	3.0			
m	Incident Investigation	2.6			
С	Employee participation	1.7			
į	Pre-startup Review	1.5			
k	Hot Work	0.4			

SUPPLIERS CAN PROVIDE:

- Process Safety Information
- Operating Procedures
- Maintenance Procedures
- Complete Submittals
- Product Hazard Review
- Tagging, Labeling & Signage



Sample product **submittals** that can be provided from the manufacturer.



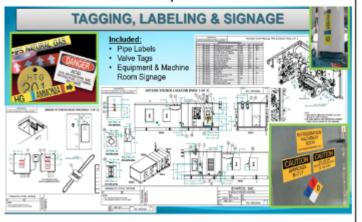
TRAINING EASIER & MORE EFFECTIVE



Sample completed **Hazard Review** for packaged low charge ammonia system that can be provided to the owner to assist with their onsite safety programs.

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Sample pipe labels, valve tags, and equipment & machine room signage that can be provided



OPERATION AND MAINTENANCE:

Packaged systems can facilitate easy maintenance by the inclusion of such things as:

- Access doors & fan/motor removal davits
- Exterior Service Panel on machinery room including the ability to connect a pump-out unit
- Monorail and hoist for compressor or motor removal
- "Walk-in" machinery room with required maintenance access
- Maintenance is performed indoors on the roof instead of outdoors
- Stainless steel piping, eliminating pipe corrosion
- Isolation valves on major equipment
- Cable tray for wiring for easy access



LOWER COST OF OWNERSHIP

Packaged low charge ammonia systems can provide a lower cost of ownership:

- Lower building costs no central machine room
- Lower refrigerant costs
- Lower regulatory & compliance costs
- Complete Operation & Maintenance procedures
- Easier training and unit operation
- Lower electric bills through energy efficient design plus more effective operators.

