WHAT YOU CAN DO -

These guidelines are not intended to be operating instructions or a maintenance manual. It is intended as a guide to encourage best management practices. You can help by distributing these guidelines and training your employees.

The following checklist has been prepared by fertilizer industry professionals and we are asking you to review your procedures and train your employees to ensure every possible precaution is being taken to minimize the potential for an NAR:

Anhydrous Ammonia Tank Car Checklist

Plant/Terminal:		Car Number:		
Safety Valve Test Date Due:		Tank Test Date D	ue:	
Stenciled Car Capacity: kgs or lbs	Lt. Weight:	kgs or lbs	Net Capacity:	kgs or lbs
D.O.T. #:		D.O.TSP #:		

NOTE: NET LOAD MUST NOT EXCEED 2% OF THE TOTAL CAPACITY TEMPERATURE RELATED.

Prior to loading/unloading		UNLOADING		Prior to releasing		
Locked			Derails	🗇 Unlocked		
	□ In Place Blue Flags □ Re		Removed			
🗇 Yes	🗖 No	🗖 N/A	Hand brake applied and wheel chocks in place?	🗖 Yes	🗖 No	🗖 N/A
🗖 Yes	🗖 No	🗖 N/A	Is there a dome seal pin with a chain attached?	🗖 Yes	🗖 No	🗖 N/A
🗖 Yes	🗖 No	🗖 N/A	Are the port hole covers in place?	🗖 Yes	🗖 No	🗖 N/A
🗖 Yes	🗖 No	🗖 N/A	Is the Thermowell cap tight?	🗖 Yes	🗖 No	🗖 N/A
🗆 No	🗖 Yes	🗖 N/A	Is the Thermowell cap leaking?	🗖 No	🗖 Yes	□ N/A
🗖 Yes	🗖 No	🗖 N/A	Are the sample lines tight and free of leaks?	🗖 Yes	🗖 No	🗖 N/A
□ Yes □ Yes	□ No □ No	□ N/A □ N/A	Is the "A" liquid valve wrench tight and free of leaks? Is the "A" liquid valve plug Teflon taped and wrench tight?	□ Yes □ Yes	□ No □ No	□ N/A □ N/A
□ Yes □ Yes	□ No □ No	□ N/A □ N/A	Is the "B" liquid valve wrench tight and free of leaks? Is the "B" liquid valve Plug Teflon taped and wrench tight?	□ Yes □ Yes	□ No □ No	□ N/A □ N/A
□ Yes □ Yes	□ No □ No	□ N/A □ N/A	Is the vapor line wrench tight and free of leaks? Is the vapor line plug Teflon taped and wrench tight?	□ Yes □ Yes	□ No □ No	□ N/A □ N/A
□ No □ Yes	□ Yes □ No	□ N/A □ N/A	Is the safety valve leaking? Is the safety valve free of obstructions?	□ No □ Yes	□ Yes □ No	□ N/A □ N/A
🗖 Yes	🗖 No	🗖 N/A	Is "Anhydrous Ammonia" legibly stenciled on both sides of the car with 4" letters?	🗖 Yes	🗖 No	🗖 N/A
🗖 Yes	🗖 No	🗖 N/A	Is "Inhalation Hazard" legibly stenciled on both sides of the car with 4" letters?	🗖 Yes	🗖 No	🗖 N/A
🗖 Yes	🗖 No	🗖 N/A	Is the gauging device and protection hood in operational condition?	🗖 Yes	🗖 No	🗖 N/A
🗖 Yes	🗖 No	🗖 N/A	Is the car equipped with 4 placard holders?	🗖 Yes	🗖 No	🗖 N/A
🗖 Yes	🗖 No	🗖 N/A	Have the prescribed placards been properly applied?	🗖 Yes	🗖 No	🗖 N/A
🗖 No	🗖 Yes	🗖 N/A	Are there any concerns with the condition of the rail car exterior?	🗖 No	🗖 Yes	🗖 N/A
🗆 No	🗖 Yes	🗖 N/A	Are there any concerns with the rail car running gear?	🗖 No	🗖 Yes	□ N/A
🗖 Yes	🗖 No	🗖 N/A	Does the car have double shelf couplers?	🗖 Yes	🗖 No	□ N/A
🗖 Yes	🗖 No	🗖 N/A	Is the car body properly grounded?	🗖 Yes	🗖 No	🗖 N/A
🗖 Yes	🗖 No	🗖 N/A	Are the load lines properly secured?	🗖 Yes	🗖 No	🗖 N/A
🗖 No	🗖 Yes	□ N/A	Is there any reason why this car should not be loaded/unloaded or shipped?	🗖 No	🗖 Yes	□ N/A
🗖 Yes	🗖 No	🗖 N/A	Is the dome sealed? Dome Seal #:	🗖 Yes	🗖 No	🗖 N/A
T Yes	□ No	□ N/A	Is the spare cable seal inside the dome? Spare Seal #:	T Yes	□ No	□ N/A

NAR

There must be ZERO LEAKAGE of liquid or vapor after loading/unloading is complete and all valves must be closed tight.

🗖 Pass

The car has been properly loaded/unloaded.

This car has passed final inspection on the day of releasing.

Signature of loader/unloader

Specific Comments:

Signature of loader/unloader

Detector Reading

🗖 Fail

 Fines from the Department of Transportation between \$6-12,000 per incident. 49 CFR 107, Subpart D, Appendix A, Part G.5 - "offering a hazardous material for transportation in a package that leaks during conditions normally incident to transportation;" Fines from the railroads. These fines can range from \$3,000 per incident to \$10,000 in some instances; Shipment/train delays; Employee injuries; Environmental clean up; Public safety risk; 	2008 37 NARs reported for anhydrous ammonia rail cars WHAT ARE THE CONSEQUENCES OF NARS	2007 43 NARs reported for anhydrous ammonia rail cars	cars. With over 50,000 tank cars of anhydrous ammonia shipped every year, reducing and eliminating NARs is a top priority in the fertilizer industry. The indus- try is committed to the secure and safe movement of our products and protecting the environment and	The most common causes of anhydrous ammonia NARs are deteriorated O-rings; liquid line with missing valve or closure plug; liquid line with valve or closure plug left open; loose pressure plate con- nection; or deteriorated pressure plate gasket. In 2007, anhydrous ammonia rail cars had 43 NARs and in 2008 37 NARs. The majority of NARs are associated with receivers returning residue tank	WHAT IS A NON-ACCIDENTAL RELEASE? A non-accidental release (NAR) refers to an unin- tentional release of a hazardous material from a railroad tank car <i>NOT</i> associated with an accident or a derailment. Anhydrous ammonia rail tank car NAR's have been an on-going problem at loading and unloading facilities for some time.
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CAR LOADING/UNLOADING

- ssociation of American Railroads (AAR). WD sponsored by TRANSCAER and the
- he Fertilizer Institute. opies available free of charge from

PHLET 34

- ervice and Pressure Tank Cars. ng and Unloading of Non-Pressure General lecommended Methods for the Safe Load-
- he NAR Web site. copy of the pamphlet is available through

WEB SITE

or further information, visit ttp://nar.aar.com



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Approximately \$50,000 to trans-load a full leak-

due car;

Approximately \$20,000 to purge a leaking resi-

Cost of activating response teams.

ing car; Bad press; and

ANHYDROUS AMMONIA S LOADING/UNLOADING RAIL TANK CARS IN NORTH AMERICA REDUCE AND ELIMINATE NON-ACCIDENTAL RELEASES



