Safeguarding storage bins

ANNUAL STEEL STORAGE BIN CHECKLIST



ASSET FILE FOLDER

The following information should be collected and verified for each steel bin at the property and stored in a centralized location:

Date of Construction USDA Bin Designation		
Plans	Foundation Plans Construction Manual Bin Model Number Bin Diameter Bin Eave Height Bin Capacity in Bushels	
Operations	Bin Owners/Operators Manual Written operational procedures for bin loading Written operational procedures for fan operations Written operational procedures for bin unloading including clean-out procedures Written maintenance procedures for bin Written lock-out-tag-out procedures Written bin entry procedure	
Inspections	Photo documentation of bin during construction	
Maintenance	Record of maintenance conducted Date Activity Contractor Photos	



INITIAL INSPECTION PRIOR TO FILING

The following information should be collected and verified for each steel bin prior to filling for the first time:

Date of Inspection		
Foundation	Verify foundation dimensions match design drawings Identify and document any foundation cracks	
	Verify water flows away from the bin Verify water flows away from the foundation Verify bin is tight to the foundation Review transit readings to verify foundation is level	
Walls	Verify all panel bolts in place Clean-up all loose bolts Verify all anchor bolts are tight and vertical (no angled anchor bolts)	
	Verify all wall wind rings are tight Verify all sweep ring bolts are tight and vertical Verify bin stiffeners that land on aeration tunnels are properly supported (vertical suppor installed between bin stiffener anchor plate and bottom of aeration tunnel)	t
Roof	Verify all roof wind rings are tight Verify roof to sidewall connection Verify roof mounted equipment is properly secured	
Openings	Auxiliary sumps chained and padlocked Man access doors properly secured Equipment entry doors properly braced and secured	
Equipment	Operate all the following equipment: Grain Aeration Fans Exhaust Fans Sumps / Slide Gates Reclaim Conveyor Power Distributor Sweep Auger Side Draw Gates Fill System	
Training	Provide training for grain handling employees on proper loading of metal bin and any special requirements for first time filling of bin	
	Provide training for grain handling employees on proper unloading of metal bins	



ANNUAL INSPECTION AT CLEAN OUT

Date of Inspection

The following information should be collected and verified for each steel bin at the time it is emptied each year:

Foundation	Identify and document any foundation cracks Verify water flows away from the bin Verify water flows away from the foundation Verify foundation is level Verify bin is tight to the foundation Check all anchor bolts are tight Document any apparent movement of stiffener anchors	
Walls	Verify bin stiffeners are attached and plumb Check bin for rust Check for bent or damaged bin corrugated panels Check for missing, loose or broken bin bolts Check to see if any bin bolts are on the ground around the bin Verify all wall wind rings are tight	
Roof	Verify all roof wind rings are tight Check the bin roof connections	
Openings	Check man access doors and equipment entry doors for damage	
Equipment	Verify condition of all the following equipment: Grain Aeration Fans	
Training	Provide annual refresher training for grain handling employees on proper loading and proper unloading of metal bins Provide annual refresher training on lock-out-tag-out procedure Provide annual refresher training for bin entry procedure	_
Record any maintenance activities conducted	Date Activity Contractor Photos	
Miscellaneous	Document the condition of the bin and foundation - review and photograph	



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