

<input checked="" type="checkbox"/>	VC RELEASED FOR FABRICATION - CORRECT AND RESUBMIT
<input type="checkbox"/>	VF FINAL - DO NOT RESUBMIT
<input type="checkbox"/>	VI FINAL - INFORMATION ONLY
<input type="checkbox"/>	VN NOT RELEASED FOR FABRICATION - CORRECT AND RESUBMIT
<input type="checkbox"/>	VM FINAL, MANUAL(S) - NOT RETURNED TO VENDOR
<input type="checkbox"/>	VEF FINAL - ELECTRONIC FILES
<input type="checkbox"/>	VV VOID - SEE COMMENTS ON DOCUMENTS
<input type="checkbox"/>	EQ DO NOT ISSUE THIS REVISION SUPERCEDED BY ANOTHER REVISION

**RECOMMENDED**

**LONG-TERM STORAGE PROCEDURES**



Material should be held in storage or marshalling yard at a location away from the actual construction activities until actually required for installation.

The equipment was shipped with rust preventative (oil or grease) applied to flange faces and all machined surfaces. Additionally, shipping covers are installed to protect flange faces. Gasket seating surfaces should be cleaned with solvent prior to installing gaskets. Shipping covers must be left installed until flanges are to be bolted.

HIGH DENSITY POLYETHYLENE

The location and method of storage must be selected to maintain the equipment in new condition prior to installation and commissioning.

1. The equipment should be stored indoors if possible. If storage must be outdoors, then the location should be a clean paved area away from the construction activities in order to avoid physical damage and exposure to excessive amounts of dirt.
2. The equipment should be inspected every two (2) weeks during storage to be sure that there is no deterioration.
3. All vessel and pipe openings must remain sealed against dirt and moisture. Flange faces to be coated with grease.
4. Manual valves which are left on the vessel or piping should have their stems coated with heavy grease. The valves should be wrapped with plastic sheet with edges sealed to prevent ingress of dirt or moisture.
5. Packages of desiccant should be placed inside instrument housings. These should be checked each two (2) weeks and replaced as necessary.
6. Instruments should be wrapped with plastic and sealed to prevent ingress of moisture or dirt. DURING ANY PERIODS OF STORAGE, EXCEPT FOR INSPECTION, WATER TIGHT TARP
7. Packages or bundles of platforms and ladders must be stored inside a building or outside on a clean paved surface. PLATFORMS SHALL BE MOUNTED ON WOODEN SKIDS AND ADEQUATELY PROTECTED TO PREVENT DAMAGE AND CORROSION. PLATFORMS SHALL BE WRAPPED IN WATER TIGHT PLASTIC.
8. Once each month all valves should be operated (opened and closed).

	<b>WorleyParsons</b> resources & energy	
Kim Tendana		11/11/09
REVIEWED BY		DATE
<small>Purchaser's review and/or release for fabrication shall not be construed as relieving seller of any obligation or responsibilities with respect to these documents of the items to be furnished by seller pursuant thereto.</small>		



VND -	DISC	PROJ#	P.O.	SEQ	SHT	REV	TAG
	VS	3622424-02	0019	00026	001	000	VSP-6001/26011
		373 05244-02			(66)		

9. Long-Term Storage:

Should the units be placed in storage longer than ninety (90) days, the following should be done:

- a. Make sure all flange covers are still in place and sealed. All threaded openings have plugs installed.
  - b. Any instruments that might have been installed are removed from vessel, placed in boxes, sealed, and stored in warehouse.
  - c. All valves installed in piping to be protected from elements. Gate valves should be opened and lightly seated each month and lubricated as necessary. Ball valves to be opened and closed. If unit is stored for longer period, valves should be removed and stored in warehouse. Pipe end flanges where valves are removed must be covered and sealed.
  - d. Relief valves stored in warehouse. Light coating of rust preventative in valves. Flange covers should be installed on valves.
  - e. All isolating valves should be stored in warehouse. Light coating of rust preventative in valves. Valves stored with gate lightly seated; ball valves closed. Flange covers should be installed on valves.
  - f. Junction boxes with cable glands, if installed, should be removed from rack, sealed in boxes and stored in warehouse. Bolts to mount boxes to be placed in plastic bags and stored with junction boxes.
  - g. Transformers must remain sealed and protected during storage, and testing of dielectric strength of transformer oil is required prior to putting transformer in service.
10. VESSEL SHALL BE PROVIDED WITH 5 PSI NITROGEN BLANKET. THE NITROGEN BLANKET SHALL INCLUDE ALL NOZZLE / MANWAY BLINDING AND GASKETING. IN ADDITION, PROVIDE AND PLUMB AN ADDITIONAL NITROGEN BOTTLE WITH REGULATOR AND PRV TO MAINTAIN 5 PSI DURING STORAGE. ALSO, PROVIDE AND INSTALL DESI-PAK, ALUMINUM SILICATE CLAY DESICCANT. ONE BAG PER 13.2 CUBIC FEET.
11. ALL INTERNALS SHALL BE INSTALLED AND SECURED. IF TEMPORARY INTERNAL BRACING IS REQUIRED TO ADEQUATELY SECURE INTERNALS, IT SHOULD BE PAINTED RED AND MARKED "BRACING FOR SHIPPING ONLY"

FOR USE ONLY IN THE FIELD. DO NOT USE FOR STORAGE OR TRANSPORT.