

Addendum #1 for the SVS System Nox Emission Reduction System
11/08/2011

1. Drawing A334A-1000-G1 Base Bid 1 is now an option item. This also affects Key notes 7 and 8 on drawing page A334A-1000-D2 Rev.1. Keynotes should now read " Existing foundation and equipment pads can be reused if the contractor verifies that the pads are adequate.
2. Drawing A334A-1000-M9 Rev.1 Pipe support details PS-3 is, at the contractors options Design Build. The appropriate pipe support loads are detailed below.

The load listed below is applied at the centerline of the 18" dia. pipe. The support shall allow freedom of movement in the Z direction (along the centerline of the pipe).

	Fx (LBS)	Fy (LBS)	Fz (LBS)
DL	5	-2766	0
TL	2	46	0
ELY (1)	3682	0	0
ELZ (1)	0	0	0
WLX (1)	415	-29	0
WLZ (1)	0	0	0

NOTE: (1) LOADS ARE REVERSIBLE

3. Design deliverables and milestones associated with the design build project are to have the contractor submit a 50% and 100% design for design review purposes.
4. Drawing A334A-1000-G1 Rev.1 – Change the following note to Contractor Staging Area.
Electricity and water is available from Bldg N231 for Contractor's use during the construction. Gas, and temporary sanitary must be provided by contractor.
5. Drawing A-334-1000-D1 Rev.1 - Keynote 1 shall be revised as follows: If removal of existing equipment foundation is needed then saw-cut around existing SVS vertical support, see reference drawing for existing foundation dimensions and rebar location. Existing SVS vertical support and foundation underneath support base plate to remain. Dowel new foundation into existing vertical support footing.
6. Drawing A334A-1000-S4 Rev.1 – detail A, existing A.C. is 4" minimum thick
7. Existing utilities (110V AC electrical power and domestic water) is available at the work site. Contractor shall submit utility hookup plan to COTR for approval prior to connection to existing utilities.
8. Any residual chemical or caustic inside the existing NOx scrubber sphere, tower and tank will be drained by the Government prior to demolition.
9. While the Arcjet is operational the sound level varies between 88-94 dB. Appropriate hearing protection will be required as specified in the NASA Ames Health and Safety Manual.
10. On drawing A334A-1000-M4 Rev.1 The existing cleanout is 8 in. dia., invert is 6'2" below grade. The existing pipe is an 8 in. ductile or cast iron pipe.

One Additional option item is being introduced

1. All platforms, catways, stairways shall be part of the option items and shall be individually priced.

Bid Additive 1; Supplemental Information.

Refer to bid issue drawing A334A-1000-D1, Key Note #8, and related photos.

A: The vacuum sphere is identified as Sphere #6. It is a "Hortonsphere" built by Chicago Bridge & Iron Co. It's of carbon steel with a diameter of 75'-4 1/4"; shell thickness is 1- 5/16" thick; on concrete pier foundations. The exterior of the sphere is painted with lead based paint. The interior surface was painted with lead based paint, but has been largely removed due to chemical corrosion. The Contractor must collect all loose and peeling paint from metal surfaces to avoid contamination of the surrounding ground surfaces. Ground cover may be required during the demolition to collect paint debris from contaminating the ground.

B: The NOx scrubber is to be removed to its foundation. Remove the surge holding tank and the surge waste tank to the concrete foundation. Tanks are approx. 28' diameter by 4' high with bottom steel plating.

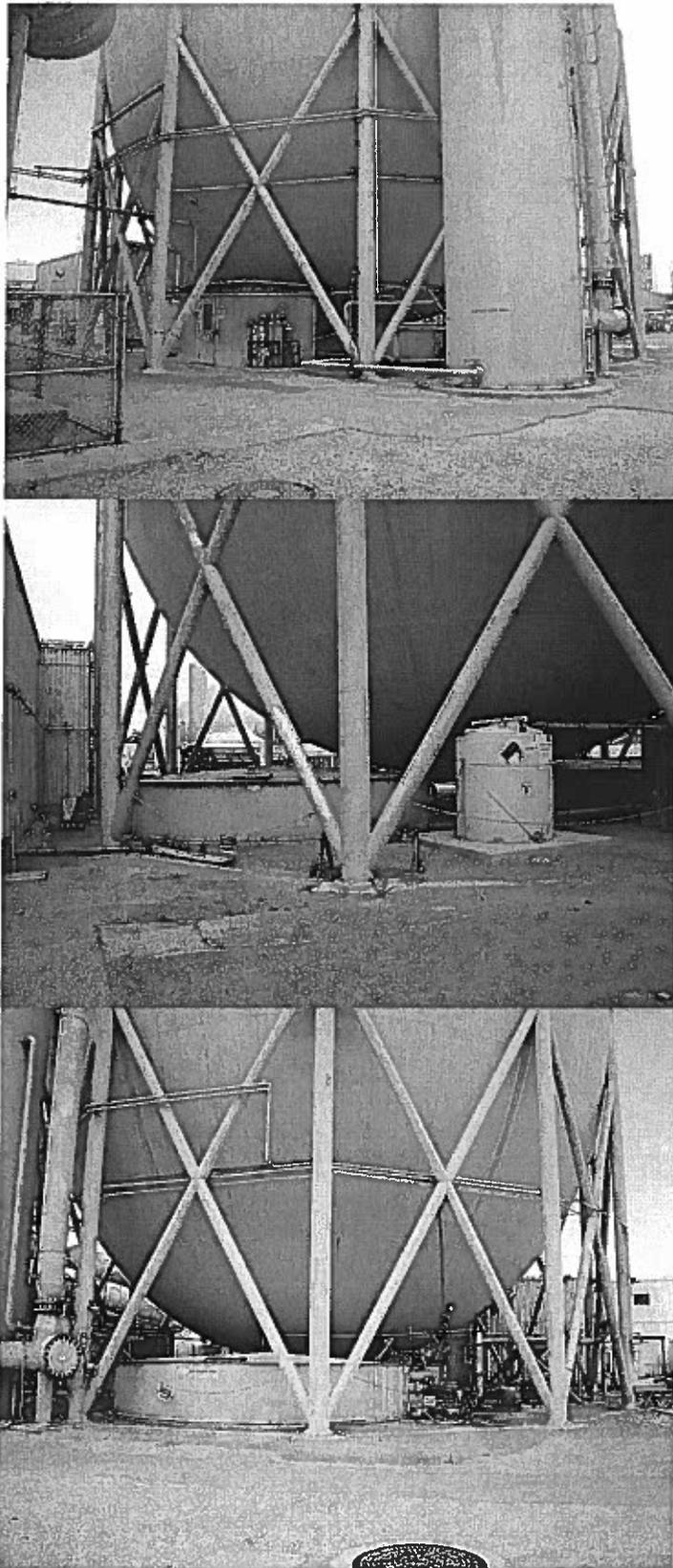
C: Remove all associated piping, valves, supports, to the concrete foundations. Remove 3 motor and pumps assemblies (P-6, 150 HP, P-7, 20 HP, P-8, 30 HP). Include cleanup of lubricants and hydraulic oils. Note that not all incident piping/devices are shown on drawing D1.

D: Residual liquids in all holding tanks will be drained by the Gov't. prior to demolition.

Field Measurements:

- 1: Measurements taken of the sphere indicate a shell thickness of 1.38" (middle of 3 measurements).
- 2: Measurements taken indicate vertical 15" diameter supports are 0.29" thick (middle of 3 measurements).
- 3: Measurements taken of the surge tanks indicate a side wall thickness of 0.295 and top plate thickness of 0.30" thick (middle of 3 measurements).
- 4: Measurements of the scrubber tank wall thickness are 0.45" thick (middle of 3 measurements).

The Contractor is to install signage and pedestrian barricades 15' from and around the sphere and at work areas while work is being performed to keep pedestrians away from the work. The Government will monitor air quality around the site to determine if additional safety measures will be required.



Attachment 5, Amendment 3