Service: (1) Remove $\mathrm{HCl}, \mathrm{SO}_{2}$, trace particulate from incinerator flue gas;
(2) Condense water in gas stream and cool gas to stack outlet temperature

Size: 51' 10 " tall x 14' 6" I.D.
Contacting Device: Two 6' deep packed beds of 3" Intalox Saddles - See remarks


| Operating and Mechanical Conditions |  |  |
| :---: | :---: | :---: |
| Design Press -13" W.C. <br> Design Temp $172{ }^{\circ} \mathrm{F}$ <br> Materials: Fiberglass reinforced vinylester with polyester inner veil as corrosion barrier |  |  |
|  | Nozzles |  |
| Service | Size | Mark no. |
| Inlet Gas | 64" | 31 |
| Access Ports | 7 @ 24", see note 3 below | 32 |
| Pressure, N side | $1{ }^{\prime \prime}$ | 33 |
| Temperature, S side | 1" | 33 |
| Temperature, N side | 1" | 34 |
| Not used, S side | 1" | 34 |
| Outlet Gas | 60" | 35 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Comments |  |  |
| 1. A Chimney tray is installed between the two packed beds so that drainage from the top bed will not mix with flow into the bottom packed bed. <br> 2. Bottom is sloped towards bottom drain. Note: configuration of inlet nozzle allows liquid seal between saturator and scrubber. <br> 3. There are 7 Access Ports \#32. One is shown on cut $A$. It is at the elevation of the bottommost port on the South side of the vessel. |  |  |




## Scrubber Internal Specifications

Packing:
(a) Size, Type, \& Height: top \& bottom both 6 ft of 3" Intalox Saddles or mass transfer equivalent. See remarks.
(b) Method of packing: Dump into dry tower
(c) Packing Arrangement: Dumped

Liquid Distributors:
Top: Pipe Manifold
Bottom: Launder Manifold
Packing Support:
Top: 1" thick FRP grating supported by FRP beams
Bottom: 1" thick FRP grating supported by FRP beams
Packing Removal Manways: At top and bottom of each packed bed
Entrainment Separator: 1 to $2^{\prime}$ of 3" Intalox Saddles dumped on top of top packed bed distributor

Spray Nozzles: None


| Materials of Construc |
| :--- |
| Packing: Polypropylene |
| Distributor Tray |
| Top: Polyvinylchloride |
| Bottom: FRP |

Chimney Tray: FRP
Packing Support: FRP

## Remarks

Alternately, the $1^{\text {st }}$ stage or bottom packing may be 40 inches of Intalox snowflake packing covered with at least 12 inches of 3 inch Intalox saddles.

