

**State** Utah

**State Agency** Department of Environmental Quality

**Affected Area** Hill AFB

**Regulation** Source-specific requirements

**Rule Number** Ozone NAAQS Approval Orders

**Rule Title** BAQE-353-88, Approval Order for Two Cold Solvent Cleaning Tanks  
in Building 2013 Weber County (7/21/1988)

**State Effective Date** 03/04/1997

**State Adoption Date** 02/05/1997

**EPA Effective Date** 08/18/1997

**Notice of Final Rule Date** 07/17/1997

**Notice of Final Rule Citation** 62 FR 38213

**Comments**

Rule:



[Hill AFB - DAQE-353-88.pdf](#)



DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL HEALTH

Norman H. Bangener  
Governor  
Suzanne Dandoy, M.D., M.P.H.  
Executive Director  
Kenneth L. Alkema  
Director

288 North 1460 West  
PO Box 16690  
Salt Lake City, Utah 84116-0690  
(801) 538-6108

BAQE-353-88

July 21, 1988

Mr. Thayne Judd  
Department of the Air Force  
Ogden Air Logistics Center (AFLC)  
Hill Air Force Base, Utah 84056

Dear Mr. Judd:

Re: Approval Order for Two Cold Solvent Cleaning Tanks in Building 2013  
Weber County, CDS A1

The above-referenced project has been evaluated and found to be consistent with the requirements of the Utah Air Conservation Regulations (UACR) and the Utah Air Conservation Act. A 30-day public comment period was held and all comments received were evaluated. The conditions of this approval order reflect any changes to the proposed conditions which resulted from the evaluation of the comments received. This air quality approval order authorizes the project with the following conditions:

1. Hill Air Force Base shall install the two cold solvent cleaning tanks and a 1,500 gallon waste storage tank at Building 2013 according to the information submitted in the notice of intent dated November 6, 1987 and the additional information dated January 6, 1988.
2. The owner/operator shall operate the solvent cleaning tanks in compliance with the following conditions:
  - A. A cover shall be installed on each tank. The covers shall remain closed except during actual periods of operation of the tanks.
  - B. An internal draining rack for cleaned parts shall be installed in both tanks. The parts shall be drained until all dripping ceases.

4.2.4-917

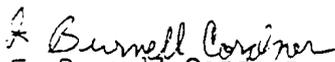
- C. Waste or used solvent shall be stored in covered containers and disposed of by a method which prevents its emission to the atmosphere.
  - D. Tanks, containers, and all associated equipment shall be maintained in good operating condition, and leaks shall be repaired immediately.
  - E. Written procedures for the operation and maintenance of the solvent cleaning equipment shall be posted in an accessible and conspicuous location near the equipment.
3. The cleaning solvent used shall be isopropyl alcohol. The use of any other solvent shall require prior approval in accordance with Section 3.1, UACR.
  4. All installations and facilities authorized by this approval order shall be adequately and properly maintained.
  5. The Executive Secretary shall be notified in writing upon start-up of the installation, as an initial compliance inspection is required.

Any future modifications to the equipment approved by this order must also be approved in accordance with Section 3.1.1, UACR.

This approval order in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including the Utah Air Conservation Regulations.

The fee for issuing this approval order is \$322.72. The amount is payable to the Bureau of Air Quality, sent to the Executive Secretary, Utah Air Conservation Committee, 288 North 1460 West, P.O. Box 16690, Salt Lake City, Utah 84116-0690 and is due within 30 days after receipt of this approval order.

Sincerely,

  
F. Burnell Cordner  
Executive Secretary  
Utah Air Conservation Committee

FBC/MK/sh

cc: EPA Region VIII, John Dale  
Davis County Health Department

4.2.4-918

JAN 0 6 1988

Mr F. Burnell Cordner, Executive Secretary  
Bureau of Air Quality  
288 North 1460 West  
PO Box 16690  
Salt Lake City UT 84116-0690

Re: Notice of Intent to Construct Submittal Dated 6 Nov 1987 - Two Cold Solvent Cleaning Tanks in Building 2013

Dear Mr Cordner:

Attached is a supplement to the referenced Notice of Intent to Construct. We propose adding a 1500 gallon isopropyl alcohol and waste water tank to the solvent cleaning process at Bldg 2013.

If this office can provide additional information, please feel free to contact Jay Gupta at 777-7651.

Sincerely

signed  
NATHAN O. CURRIER  
Dep Chief, Environmental Mgt Office

1 Atch  
Emissions From Waste Water Tank

DEV OFFICIAL FILE COPY

Coordination		
By	Initials	Date
DEVX	<i>JG</i>	1/5/88
DEVX	<i>JG</i>	⑤
DEV	<i>JG</i>	⑤

NOI for  
AO E353-88

## EMISSIONS FROM WASTE WATER TANK

### 1. Project Description:

A 1500 gallon tank will be constructed outside of building 2013. This tank will accept floor drains, wash downs and any alcohol spill from the dip cleaning tanks. The tank will be provided with a 6KW single phase, 208 volt heater to heat the solution sufficient to drive off alcohol vapors. The tank will have a cover with four 4-inch vents to discharge alcohol vapors to the atmosphere.

### 2. Pollutant Emissions:

The primary source of air pollutant from the evaporation tank will be isopropyl alcohol vapors. It is estimated that one day operation will yield approximately one quart of alcohol per day per tank and the spray/cleaning operations will yield about two quarts of alcohol per day. Thus, a maximum of one gallon alcohol per day will be lost to the waste tank.

Therefore, total alcohol emissions to atmosphere:

$$1 \frac{\text{Gallon}}{\text{Day}} \times 7.4 \frac{\text{Lbs}}{\text{Gallon}} \times 5 \frac{\text{Days}}{\text{Wk}} \times 52 \frac{\text{Wks}}{\text{Yr}} \times \frac{\text{Ton}}{2,000 \text{ Lbs}} = 0.96 \text{ Ton/Yr}$$

### 3. Air Cleaning Devices:

No air cleaning devices are proposed.

### 4. Emission Points:

Four 4-inch vents in the top of the tank will discharge pollutant to the atmosphere.

### 5. Sample Points:

No sampling points are anticipated.

### 6. Operating Schedule:

The proposed equipment will be operated eight hours a day, 5 days a week and 52 weeks a year.

4.2.4-920

Gupta/DEVX/A Oct 31/772065/sr/1S17v

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Mr. M. Ronald Cordner, Executive Secretary  
State Air Conservation Committee  
Bureau of Air Quality  
286 North 1460 West  
PO Box 16690  
Salt Lake City, UT 84116-0690

Re: Notice of Intent to Construct

Dear Mr. Cordner:

In compliance with section 3.1 of the State Air Conservation Regulations, the attached Notice of Intent to Construct is submitted by Hill AFB.

If this office can provide additional information, please feel free to contact Jay Gupta at 777-2065.

Sincerely,

**SIGNED**  
**THAYNE H. JUDD, Col, USAF**  
Base Civil Engineer

1 Arch  
Notice of Intent to Construct

Project	Status	Date
DEVX	guy	11/6
DEVX	Dunton	11/4
DEVX	J. J. J.	11/1/4

NOTICE OF INTENT TO CONSTRUCT

TWO (2) COLD SOLVENT CLEANING TANKS IN BLDG 2013

HILL AIR FORCE BASE, UTAH

1. PROJECT DESCRIPTION:

The proposed action provides for installation of two (2) isopropyl alcohol dip cleaning tanks in building 2013. These cold cleaning tanks will be used for cleaning F-16 emergency power unit (EPU) components including small tanks, valve components, valve body and other associated accessories. Each cleaning tank will be approximately 8'H X 4'-6"W X 3'D, complete with ventilation hood, an exhaust fan and a stack. Each tank will be provided with a cover which will be kept closed at all times except for loading/unloading parts. Each stack will exhaust approximately 2,100 cubic feet per minute (cfm) to the atmosphere.

2. POLLUTANT EMISSIONS:

The primary source of air pollutants from cold cleaning tanks is hydrocarbon vapors. Using EPA Publication AP-42, second edition, Table 4.6-2, the emissions from these sources are calculated as follows:

Type of solvent: Isopropyl Alcohol

Method of application: Dip cleaning

Emission Factor = 0.08 Lb/Hr, Ft<sup>2</sup>

Total HC Emissions

$$\frac{0.08 \text{ Lb}}{\text{Hr, Ft}^2, \text{ Unit}} \times 13.5 \text{ Ft}^2 \times \frac{2 \text{ Hrs}}{\text{Day}} \times \frac{5 \text{ Days}}{\text{Wk}} \times \frac{52 \text{ Wks}}{\text{Yr}} \times 2 \text{ Units} \times \frac{\text{Ton}}{2,000 \text{ Lbs}}$$

Total VOC Emission = 0.56 Ton/Yr

3. AIR CLEANING DEVICES:

No air cleaning devices are proposed.

4. SAMPLE POINTS:

No sampling points are anticipated.

5. EMISSION POINTS:

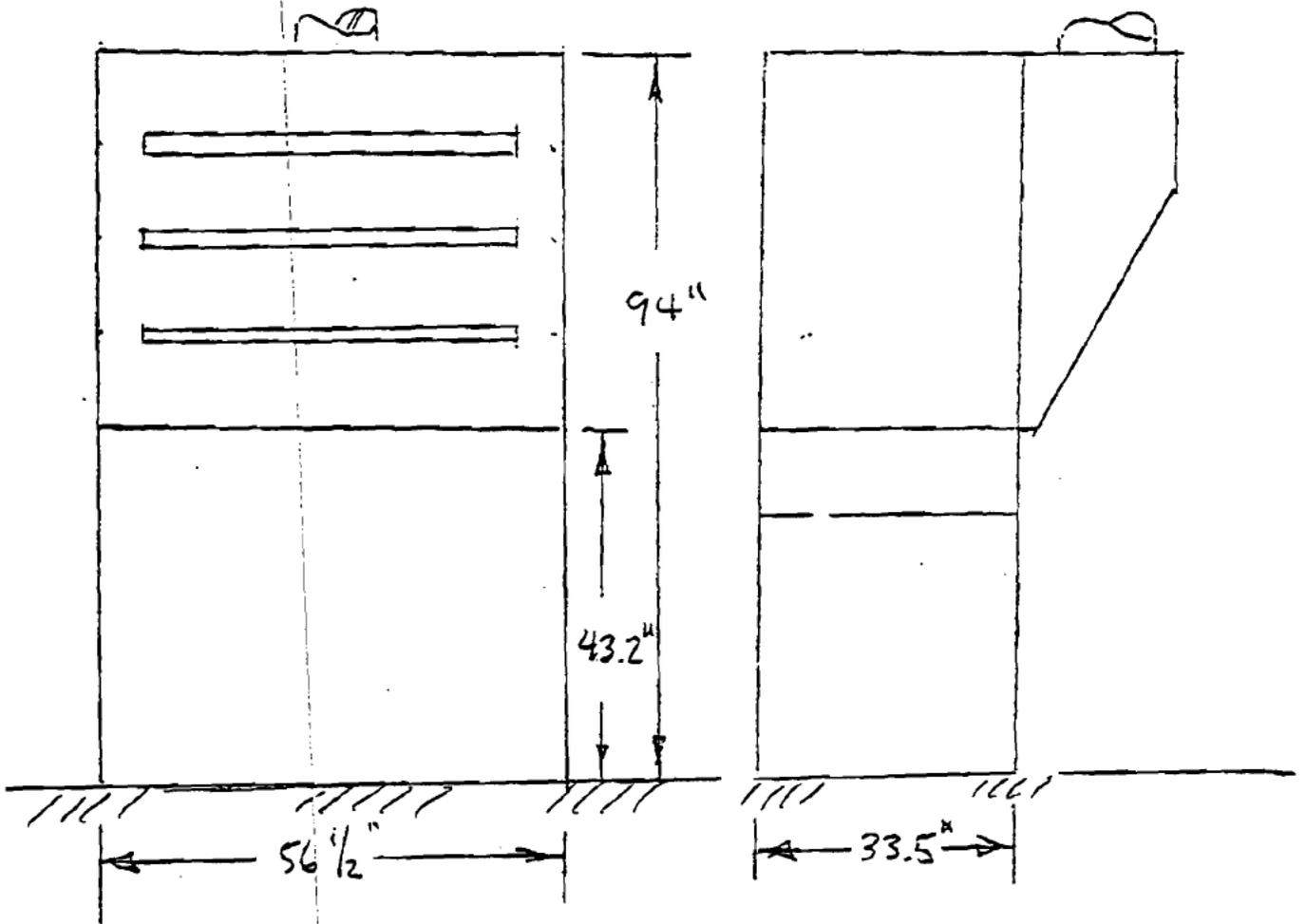
There shall be two (2), 14-inch stacks, 25 feet above floor level discharging 2,100 cfm through each stack.

6. OPERATING SCHEDULE:

The proposed facility will normally be operated two hours a day, five days a week, 52 weeks per year.

1815v

4.2.4-923



TANK DIMENSION

4.2.4-924