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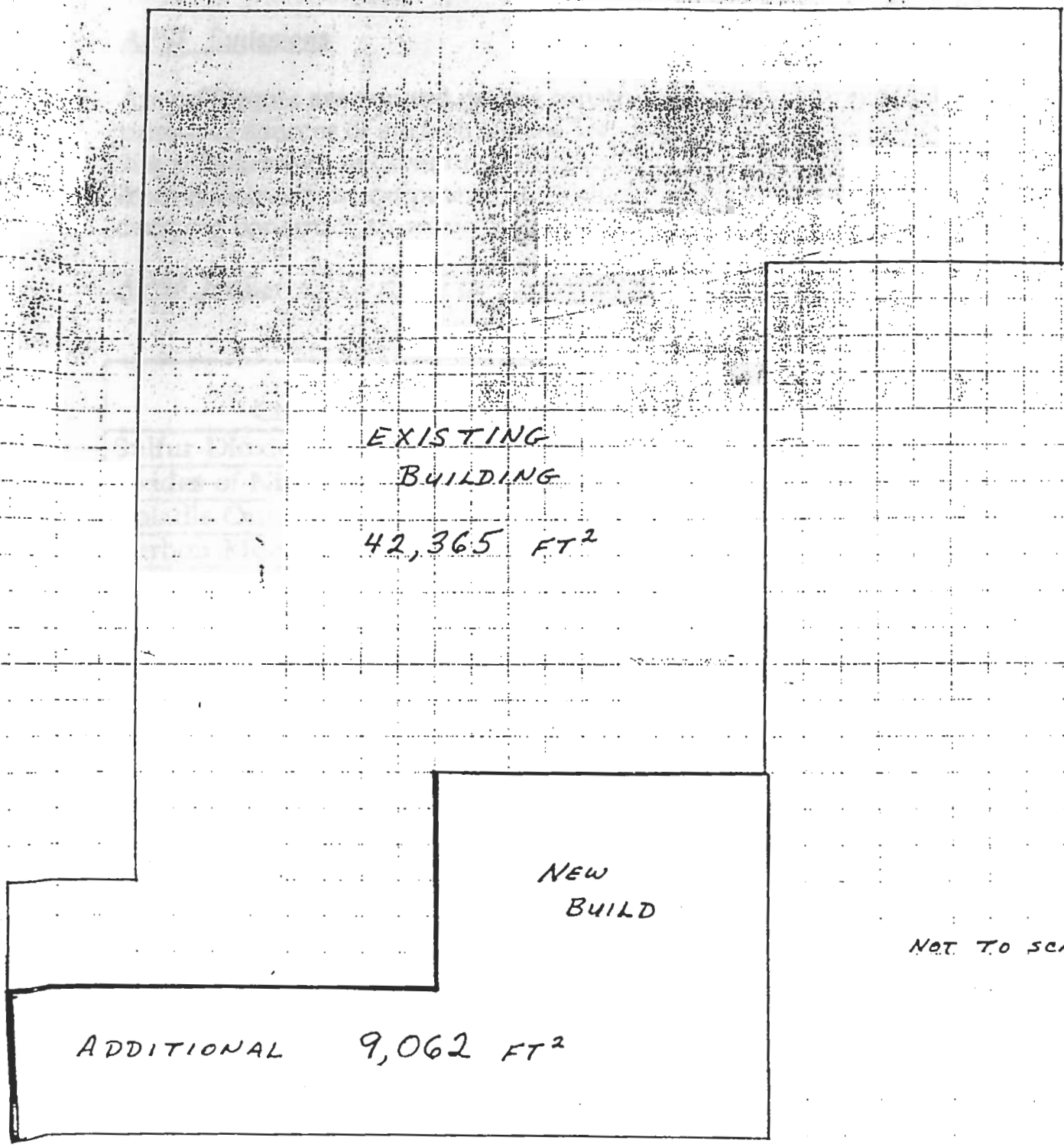
Box 33
Item 14

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CONCEPTUAL FLOOR PLAN
OF
APSF
AT
SRS

*REGIONAL VAULT CASE*

*APSF Emissions*

Air pollutants are emitted during construction of the storage facility. The principal sources of such emissions are: fugitive dust from land clearing, site preparation, excavation, and other construction activities; exhaust from construction equipment; and vehicles delivering materials and carrying construction workers.

*APSF Emissions During Peak Construction Year*

9/19/95

| Chemical | Emission (Tons) | |
|---|---|---|
| | Current | Additional |
| Sulfur Dioxide | 0.1 | 0.011 |
| Oxides of Nitrogen | 0.8 | 0.089 |
| Volatile Organic Compounds | 0.2 | 0.022 |
| Carbon Monoxide | 4.0 | 0.444 |
| Particulate Matter (10 microns or smaller) | 1.2 | 0.133 |
| Total Suspended Particulates | 2.5 | 0.278 |

- Increases are due to increased fuel consumption.

*REGIONAL VAULT CASE*

*APSF Total Wastes Generated During Construction*

9/19/95

| Waste Category | Quantity | |
|---|---|---|
| | Current | Additional |
| Concrete and Paving | 90 cu. yd. | 19.25 cu. yd. |
| Steel | 9 tons | 1.92 cu. yd. |
| Water | 3,986,000 gals. | 442,888 gals. |
| Hazardous Waste | 2.0 cu. yd.* | 0.43 cu. yd. |

*Includes Liquid Wastes (Lube oils, hydraulic fluids and cleaning solvents).

*Additional Construction Waste Calculations*

Additional waste volumes are calculated by ratioing based on the increased square footage.

9,062 SF

9,062 SF/42,365 SF = 0.2139

For Water: It is assumed that the construction manpower would remain the same and the construction time is estimated to increase by four months. Using a monthly average of 110,772 gallons given an additional requirement of 442,888 gallons.

*REGIONAL VAULT CASE*

*APSF Additional Manpower Requirements*

The additional manpower required to receive the additional material is estimated to be 6 FTEs direct and 24 FTEs indirect or support personnel. The total additional FTEs is 30.

*GIONAL VAULT CASE*

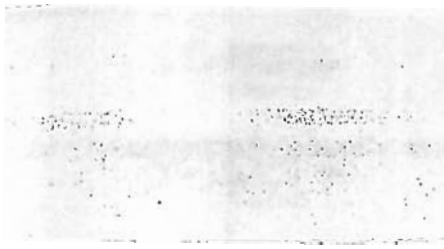
*SF Annual Chemicals Consumed During*

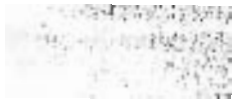
| Chemic | C |
|---|---|
| Betz Slimicide (C | 15 |
| Sodium | |
| Carbon | |
| Polyphos ate[2] | |
| Betz 25k s inhibitors[3] | |

*AL VAULT CASE*

*SF Annual Utilities Consumed During N*

| Utilities | |
|---|---|
| esel Fuel | |
| eam | |
| ocess Well Wate | |





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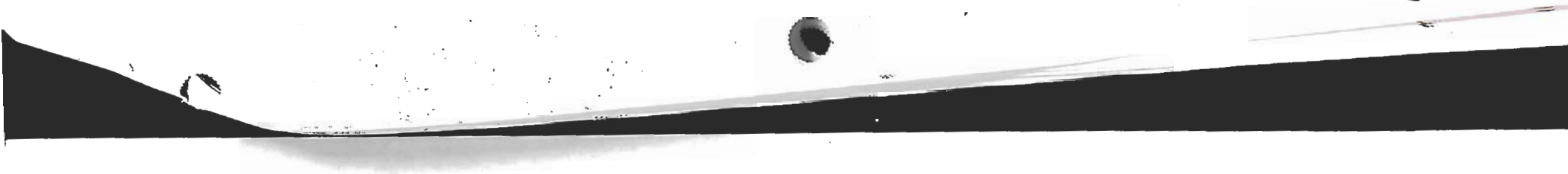

*GIONAL VAULT CASE*

*PSF Materials/Resources C med During Construction*

| Materials/Resources | Total Consu Current |
|---|---|
| **Utilities** | |
| lectricity | |
| Vater | |
| **Solids** | |
| Concrete | |
| Steel | |
| **Liquids** | |
| Fuel | |
| **Gases** | |

REGIONAL VAULT CASE

APSF Effluents

Cooling tower blowdown will be routed to the storm drain. Toxicity levels are below accepted EPA minimum values.

Steam condensate from heating will be routed to the storm drain after quenching.

Condensation from air conditioning will be recycled as cooling tower water make-up.

APSF Annual Effluent During Operations

9/19/95

| Description | Quantity (gal.) | |
|---|---|---|
| | Current | Additional |
| CT Blowdown | 1,000,000 | 300,000 |
| Steam Condensate | 530,000 | 132,500 |
| Cooling Condensate (Recycle) | 316,000 | 94,800 |

Increases are due to increased cooling and steam requirements.