

DOCKETED

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Filer:	Sabrina Savala
Organization:	NRG Oxnard Energy Center, LLC
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APPENDIX F

OFFSITE CONSEQUENCE ANALYSIS ALOHA OUTPUT

SITE DATA:

Location: OXNARD, CALIFORNIA
Building Air Exchanges Per Hour: 0.52 (unsheltered single storied)
Time: February 20, 2015 1633 hours PST (user specified)

CHEMICAL DATA:

Chemical Name: AQUEOUS AMMONIA
Solution Strength: 19% (by weight)
Ambient Boiling Point: 121.2° F
Partial Pressure at Ambient Temperature: 0.58 atm
Ambient Saturation Concentration: 580,475 ppm or 58.0%
Hazardous Component: AMMONIA Molecular Weight: 17.03 g/mol
AEGL-1 (60 min): 30 ppm AEGL-2 (60 min): 160 ppm AEGL-3 (60 min): 1100 ppm
IDLH: 300 ppm LEL: 150000 ppm UEL: 280000 ppm

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)

Wind: 1.5 meters/second from W at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 100° F
Stability Class: F (user override)
No Inversion Height Relative Humidity: 80%

SOURCE STRENGTH:

Evaporating Puddle (Note: chemical is flammable)
Puddle Area: 122 square feet Puddle Volume: 12450 gallons
Ground Type: Concrete Ground Temperature: 100° F
Initial Puddle Temperature: 81.9° F
Release Duration: ALOHA limited the duration to 1 hour
Max Average Sustained Release Rate: 3.45 pounds/min
(averaged over a minute or more)
Total Amount Hazardous Component Released: 201 pounds

THREAT ZONE:

Model Run: Gaussian
Red : 127 yards --- (200 ppm)
Orange: 149 yards --- (150 ppm)
Yellow: 216 yards --- (75 ppm)