

State of New Mexico
Energy, Minerals and Natural Resources Department

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Oil Conservation Division



BY ELECTRONIC MAIL

February 6, 2024

Kim Hamlet, ESH Coordinator
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RE: Targa Northern Delaware, LLC - Notice of a Complete Hydrogen Sulfide Contingency Plan, Red Hills Gas Plants and Sour Gathering and Acid Gas Injection Wells #1 & #3

Dear Ms. Hamlet,

The New Mexico Energy, Minerals and Natural Resource Department's Oil Conservation Division (OCD) has reviewed the updated Hydrogen Sulfide (H₂S) Contingency Plan submitted to the OCD on January 11, 2024, by Targa Northern Delaware, LLC (Targa) for the Red Hills Gas Plants and Sour Gathering and Acid Gas Injection Wells #1 and #3 located in Lea County, New Mexico. The submitted H₂S Contingency Plan includes all content components as required by 19.15.11 NMAC; therefore, the OCD has determined that the submitted H₂S Contingency Plan is complete.

Please be advised that OCD's acceptance of this plan does not relieve Targa of responsibility should its operations fail to adequately detect, investigate, and/or undertake corrective actions to prevent or stop a hydrogen sulfide release. In addition, OCD's acceptance does not relieve Targa of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Please do not hesitate to contact me at (505) 709-5149 or via email should you have any questions.

Respectfully,

Joel Stone
Environmental Scientist & Specialist
joel.stone@emnrd.nm.gov



TARGA MIDSTREAM SERVICES HYDROGEN SULFIDE CONTINGENCY PLAN

Targa North Delaware

Including:

Red Hills Gas Plants and Sour Gathering

and

Acid Gas Injection Wells #1 and #3

Located in Lea County, NM

January 8, 2024

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LOCATION OF FACILITIES

RED HILLS GAS PROCESSING FACILITY

Targa North Delaware, LLC (Targa) owns and operates the Red Hills gas processing plants, gathering system and acid gas injection (AGI) wells #1 and #3, located in southeastern New Mexico. The plants and wells are located in Lea County, New Mexico on land owned by Targa.

Mailing Address:

1934 W. NM Highway 128
Jal, NM 88252

Driving Directions from Jal, NM to the Plant:

Travel about 21 miles West on NM State Road 128 from Jal, NM.

ACID GAS INJECTION WELLS

The Red Hills AGI #1 and #3 are located on the northeast corner of the Facility. (Figure 1)

Surface Locations of the well #1 is
1,600' FSL, 150' FEL, Section 13, T24S, R33E
Latitude: 32.214586, Longitude: -103.517520 (API # 30-025-40448)

Surface Locations of the well #3 is
Latitude: 32.216264'N, Longitude: -103.521261'W (API # 30-025-51970)

GLOSSARY OF ACRONYMS UTILIZED IN THE PLAN

| | |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| AGI | Acid Gas Injection |
| ANSI | American National Standards Institute |
| API | American Petroleum Institute |
| CO2 | Carbon Dioxide |
| DCS | Distributed Control System |
| DOT | Department of Transportation |
| ERO | Emergency Response Officer |
| ESD | Emergency Shut-Down |
| H2S | Hydrogen Sulfide |
| IC | Incident Commander |
| ICS | Incident Command System |
| ICC | Incident Command Center |
| IDLH | Immediately Dangerous to Life or Health |
| LEL | Lower Explosive Limit |
| LEPC | Local Emergency Planning Committee |
| MSDS | Materials Safety Data Sheets |
| NACE | National Association of Corrosive Engineers |
| NCP | National Contingency Plan |
| NIIMS | National Interagency Incident Management System |
| NIOSH | National Institute for Occupational Safety and Health |
| NGL | Natural Gas Liquid |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environment Department |
| NMOCC | New Mexico Oil Conservation Commission |
| OCD | Oil Conservation Division |
| OSHA | Occupational Safety and Health Administration |
| PLC | Programmable Logic Controller |
| PPE | Personal Protective Equipment |
| PPM | Parts Per Million |
| ROE | Radius of Exposure |
| SCBA | Self-Contained Breathing Apparatus |
| SERC | State Emergency Response Commission |
| SO2 | Sulfur Dioxide |
| STEL | Short Term Exposure Limit |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

INTRODUCTION

The Red Hills Gas Treater Plants (AGI #1 and #2) (hereinafter the "Plants") are natural gas processing plants which treat field gas to separate hydrogen sulfide (H₂S) and carbon dioxide (CO₂) from the gas stream. The Plants have two AGI wells (Red Hills AGI #1 and #3) which are utilized for disposal of CO₂ and H₂S. This Hydrogen Sulfide Contingency Plan (the "H₂S Plan" or "the Plan") has been submitted to document procedures that are to be followed in the event of an H₂S release that occurs at any location in the Plants, gathering lines, or at the AGI processing area where Red Hills AGI wells are located.

This plan complies with New Mexico Oil Conservation Division (OCD) Rule 11 (§ 19.15.11 et. seq. NMAC. The Plant does not have any storage tanks in which H₂S or other gas or gas products are stored, and thus, OCD regulations (specifically 19.15.11.12.E NMAC) relative to those types of storage are not applicable for this plant. Drilling and completion of the AGI wells was done in compliance with NMAC 19.15.11.11. The terms used in this Plan are used as defined in Title 19 Chapter 15 Part 11 of the New Mexico Administrative code (19.15.11.7- Definitions) unless otherwise defined herein. Safety precautions in the event of a release could include placement of roadblocks, evacuation or instructions to shelter-in-place. When the term "shelter-in-place" is used in this Plan, it means that individuals should go inside homes, businesses, etc., turn off heating and air conditioning systems, close windows and doors and put towels or tape around doors and/or windows that are not sealed and wait for further instruction.

SCOPE

This Plan is specific to the Red Hills Gas Processing Plants and AGI Wells. It contains procedures to provide for an organized response to an unplanned release of H₂S from the Plants, Plant Gathering, or the AGI Wells contained within the Plants and documents procedures that would be followed to alert and protect any members of the public, residents in surrounding areas and/or contractors working on or around the plant in the event of an unplanned release. This H₂S Contingency Plan has been prepared to minimize the hazard resulting from an unplanned H₂S release. It will be used to inform company personnel, local emergency responders and the public of actions to be taken should the Plant experience such an H₂S release. All operations shall be performed with safety as the primary goal. The highest priority of the Red Hills Facility, during an unplanned H₂S release, is to protect company employees, contractors and the public; the secondary concern is to minimize the damage and other adverse effects of the emergency. In the event of a release, any part of the Plant operation that might compromise the safety of individuals will cease until the operation can be re-evaluated and the proper engineering controls implemented to assure safety. No individual should place the protection of the Plant property above his or her own personal safety.

Per 19.15.11.9 B (2) (a) this H₂S Contingency Plan is a reactionary-type plan which is a preplanned, written procedure for alerting and protecting the public, within the area of exposure, where it is impossible or impractical to brief in advance all of the public that might possibly be within the area of exposure at the moment of an accidental release of a potentially hazardous volume of hydrogen sulfide. The system is primarily located in remote areas but there are areas where public structures, highways, and roads, are located within the calculated 100 ppm and 500 ppm radius of exposure (ROE) buffers. The primary means of notification is calling 911 to report

Targa RH Contingency Plan 6

an emergency, coordinating with local emergency responders, and setting up the incident command system made up of local agency responders and Targa employees to protect the public. An emergency exists when it is determined that extraordinary procedures, equipment, manpower, and/or supplies must be used to protect the public from existing or potential hazards resulting from the escape of gas containing hydrogen sulfide.

No contingency plan can predict all situations. It is the intent of this document to allow for careful thought concerning any potential emergency and remedial actions to be followed. This plan will be fully implemented in the event of an accidental release of a potentially hazardous quantity of hydrogen sulfide gas.

PLAN AVAILABILITY

The H2S Plan shall be available to all personnel responsible for implementation, regardless of their normal location assignment. A copy of the Plan will be maintained at the Red Hills Plant Control Room, the Plant Supervisor's office, and in Field Operators vehicles as needed. See Appendix D for the H2S Plan Distribution List, which lists all the additional entities that will be provided with a copy of the H2S Plan.

EMERGENCY PROCEDURES [NMAC 19.15.11.9.B(2)(a)]

RESPONSIBILITIES AND DUTIES OF PERSONNEL DURING AN EMERGENCY

It is the responsibility of all personnel on-site to follow the safety and emergency procedures outlined in this H2S Contingency Plan. The Plant uses the Incident Command System (ICS) for emergency response. The ICS structure used is based on the National Interagency Incident Management System (NIIMS) and is consistent with the National Contingency Plan (NCP). All Plant employees must be H2S trained, and that training must be renewed on an annual basis. In the event of an accidental release that results in the activation of the H2S Plan all personnel will be evacuated out of the affected area, and the Plant Supervisor, or designee, will be the on-scene Incident Commander (IC in this Plan). Plant Operators will immediately respond to the emergency, as detailed in Appendices A and B. The IC will contact and coordinate with Targa's management team.

The Plant Supervisor/IC or designee shall determine:

- Plant Shutdowns
- Isolation of pipeline segments
- Repairs, tests or restarts as required

If an emergency occurs, the Plant Supervisor, or designee, shall be notified first, and that individual will notify the Area Manager or designee.

Site Security [NMAC 19.15.11.12.B]

In order to have an accurate listing of all personnel on-site in the event of an emergency, a daily sign-in log sheet will be utilized. The sign-in log sheet will include, at a minimum the name of the individual entering the plant, the company name, time of arrival, and time of departure. All personnel are required to sign in at the Plant Office/Control Room. In compliance with 19.15.11.12.B NMAC the Plant and AGI Wells are contained within a secure fenced area with locking gates.

Discovery and Internal Reporting

All personnel, including contractors who perform operations, maintenance and/or repair work in sour gas areas within the Plant must wear personal H2S monitoring devices to assist them in detecting the presence of unsafe levels of H2S. There are also fixed H2S monitors located throughout the plant. Personal monitoring devices will give an audible alarm at 10 ppm as will the fixed H2S monitors. When any person discovers a leak or emission release they are to attempt to resolve the issue as long as H2S levels remain at 10 ppm or below. If the response action needed to resolve the issue is more than simply closing a valve or stopping a small leak, the individual who has discovered the leak shall notify the Control Room Operator who will contact the Plant Supervisor or his designee so that the Plant Supervisor can activate the H2S Contingency Plan, if necessary. The Control Room Operator will also initiate and maintain a Chronologic Record of Events Log (see Appendix E) which records the time, date and summary of events. He will record, at a minimum, the following information:

- Name, telephone number, and location of person reporting the situation.
- Type and severity of the emergency.
- Location of the emergency and the distance to surrounding equipment and/or structures.
- The cause of the spill or leak, name and quantity of material released, and extent of the affected area including the degree of environmental hazard.
- Description of injuries (if any) and report of damage to property and structures.

All non-essential persons shall be notified of the release and evacuated from the area.

Local emergency response providers will also be contacted as deemed necessary by the IC. If necessary, operations and ES&H will then conduct the notifications of federal and state regulatory agencies including the NMOCD District Office and emergency response agencies listed in Appendix C. Red Hills operations personnel are to advise any contractor and all others on-site or attempting to enter the Plant that the H2S Plan has been activated.

IMMEDIATE ACTION PLAN

Immediate Action Plans outlining procedures and decision processes to be used in the event of an H₂S release are contained in Appendix A. These procedures and decision processes have been designed to ensure a coordinated, efficient and immediate action plan for alerting and protecting operating personnel and the public as well as to prevent or minimize environmental hazards and damage to property.

Emergency response actions may be taken for a variety of situations that may occur. The Plan is activated in progressive levels (Levels 1, 2 and 3), based on the concentration and duration of the H₂S release.

Response Flow Diagrams illustrating these Immediate Action Plans are contained in Appendix B. Red Hills Plant Operators are authorized to elevate the level of response, based on observed conditions, if they feel a lower level response may not be effective in protecting personnel, the public, or the environment. Additional or long-term response actions will be determined on a case-by-case basis, if needed, once the Incident Command Center (ICC) and System (ICS) are established following the immediate response.

TELEPHONE NUMBERS, COMMUNICATION METHODS AND MEDIA SITE

Telephone Numbers and Communication Methods

In the event of activation of the Plan, emergency responders, public agencies, local government and other appropriate public authorities must be contacted. Public awareness and communication are a primary function of this Plan. Targa has compiled a list of various public, private, federal, state, and local contacts that are to be notified at various phases during the activation of the Plan, and that information is included in Appendix C of this Plan. The Level 1, 2 and 3 Immediate Action Plans and the Response Flow diagrams contained in Appendices A and B indicate when certain entities are to be contacted in event of activation of this Plan. Targa will contact by telephone all potentially affected parties as well as state and local response organizations if the H₂S Plan is activated. All entities contacted will be advised of the following:

- The nature and extent of the release/emergency at the Plant and recommendations for protective actions, such as evacuation or shelter-in-place.
- Any other event-specific information that is necessary to protect the public.
- Updated status of the release and continued safety measures to be taken, including but not limited to when to evacuate and/or when it is safe to return to the area.

In the event of activation of the Plan, in addition to notifying individuals, businesses and operators (listed in Appendix C) Red Hills personnel, as designated by the IC, will make a visual inspection of the ROE area to ensure that no individuals are seen inside the ROE. If any are observed, they will be advised to evacuate immediately to an area outside of the ROE.

LOCATION OF NEARBY RESIDENCES, MEDICAL FACILITIES, ROADS, BUSINESSES PUBLIC RECEPTORS AND PRODUCERS

Residences and Medical Facilities

There are no residences or medical facilities located within the 500 or 100 ppm Radius of Exposure (ROE) of the Plant.

Roads

There are three public roads located within the 100 ppm ROE (SR 128, SR 21 The Delaware Basin Road and Vaca Road). SR 128 and Vaca Road have a section within the 500 ppm ROE. In the event of activation of this Plan, Red Hills personnel will be dispatched to establish roadblocks on these roads to prevent entrance into the 500 and/or 100 ppm ROE, depending on the response level and as designated by the IC. Roadblocks will be established at the designated locations regardless of wind direction in anticipation that variations in wind conditions can occur. Signs warning of the potential presence of H₂S will be installed where the 500 and 100 ppm ROEs of the Plant intersect the above referenced public roads.

Businesses or Other Public

There are no known public dwellings within the 500 and 100 ppm ROEs of the plant. There are two unmanned electrical sub-stations within the 100 and 500 ppm ROE of the Plant. Both substations are owned by Xcel Energy. There is also an unmanned cell phone tower within the ROE which is owned by InSite Towers, LLC. Telephone contact information for above entities is included in Appendix C so that they can be contacted should the Plan be activated.

Producers

There is only one producer with an active well within the ROE (COG Operating). Contact information for this producer is contained in Appendix C.

EVACUATION ROUTES, EMERGENCY ASSEMBLY AREAS AND ROAD BLOCK LOCATIONS

Evacuation Routes and Emergency Assembly Areas

Figure 2 shows the Plant plot plan, location of the AGI Wells. Evacuation for all visitors and all personnel that are not operators begins with the 10 ppm H₂S warbling alarm and activation of amber beacons (see Appendix A). Emergency services (911) will be contacted if there are injuries or as otherwise deemed necessary. As directed by the IC operations will investigate the cause of the release. At the sound of the alarm and activation of amber beacons, all other personnel in the Plant are to stop work, check the prevailing wind direction (using visible windsocks) and immediately proceed upwind to the pre-designated Emergency Assembly Areas. Prevailing winds for the area are from the southwest. Personnel should evacuate downwind of the release (based on the wind

directions observed at the windsocks); in that event all evacuees should proceed along a route that is perpendicular to the release and then upwind to the designated Emergency Assembly Area.

Roll call shall be conducted at the Emergency Assembly Area to ensure all personnel (including contractors and visitors) are accounted for and have evacuated safely. The Red Hills Plant is a Process Safety Management (PSM) facility and requires all personnel to check-in and sign-in at the Plant Office or Plant Control Room before entering the Plant. The sign-in sheet will be used at the Emergency Assembly Areas to make a full accounting of all personnel and visitors. At each Emergency Assembly Area, the ambient air quality will be monitored for H₂S concentration to ensure the area remains at less than 10 ppm. If the H₂S concentration rises to 10 ppm or greater, the assembly area will be relocated as detailed in the immediate action plan section of this document (see Appendix A).

Roadblock Locations

Pre-planned roadblock locations (which would be utilized in the event of a Level 1, 2 or Level 3 response) are shown on the ROE Map. The IC will designate representatives to staff each of the roadblocks. If deemed necessary by the IC, the State or Local Police will be asked to assist with maintaining the roadblocks.

MONITORING EQUIPMENT, ALARM SYSTEMS, SAFETY EQUIPMENT AND SUPPLIES

Emergency Shutdown Systems [NMAC 19.15.11.12.D(1)]

The Red Hills Plant is equipped with an emergency shutdown (ESD) system at the Plant and AGI Wells. The ESD system is a fail-safe hardwired system. ESD manual push-button stations are placed throughout the Plant. Operators in consultation with the IC will determine if an H₂S release situation warrants ESD of the plant. When activated the ESD System is designed to perform the following actions through the use of a hardwired interface:

- Close all hydrocarbon inlet and outlet valves to and from the affected Plant and AGI Well.
- Initiate a distinct alarm and/or light which is separate from the general plant alarm.
- Shut off fuel at all individual fuel users.
- Isolate Natural Gas Liquid (NGL) storage tanks and product pumps.
- Shut down all electric motors (with exceptions such as lube oil pumps, flare blowers, instrument air compressors, etc.).
- Shut down rotating equipment (engine-driven equipment, expander/compressors, pumps, etc.)
- Isolate fuel to engine-driven equipment.

The locations of the ESD buttons and Isolation Valves are shown in Figure 2. The ESD systems are designed to prevent a Level 3 response. Block valves on incoming lines can be closed where they enter the Plant perimeter. Additional isolating block valves outside the Plant perimeter on the incoming lines can be closed to prevent further gas flow into the Plant. The block valves furthest upstream can isolate the entire system from the field gathering lines coming into the Plant. At the discretion of the IC, operations personnel may be designated to close valves at field locations on inlet gas pipelines to ensure that incoming gas is shut off. Figure 6 shows the map of the sour gas pipeline which feeds the Red Hills Plant with gas from a gathering system and compressor station in TX. The pipeline is buried and conforms to all applicable NACE and DOT requirements. There are no facilities or gathering system connections to the line in NM until it enters the Red Hills Plant as shown in Figures 5 as a yellow line entering the sour gas plant from the east.

AGI compressors will be shut-down if two or more of the H₂S sensors located in the AGI Well area go into high alarm (90 ppm). When AGI compressors are shut-down isolation valves upstream and downstream of the units will close as well as those located on the wellhead.

The Plant ESD can be activated at any time by the Red Hills Plant Operators and is to be activated if efforts to control the release have failed or if a catastrophic release has occurred.

ALARMS, VISIBLE BEACONS AND WIND INDICATORS

Colored beacons, horns, and wind direction indicators and ESD stations are situated in various locations throughout the Plant and are shown on Figure 2. The audible signal for an emergency response is a continuous warble alarm that sounds at 10 ppm H₂S. Amber beacons are also activated at 10 ppm H₂S. The alarm will convert to a siren when the concentration of the H₂S

release is 90 ppm or higher, and evacuation of the Plant will be initiated. As per 19.15.11.12.C, wind direction indicators which are visible night and day are installed throughout the Plant as shown in Figure 2. At least one wind direction indicator can be seen from any location within the Plant as well as from any point on the perimeter of the Plant.

SIGNS AND MARKERS [NMSA 19.15.11.10]

The Plants and AGI Wells (contained totally within the Plant boundaries) have readily readable warning, caution and notice signs which conform to the current ANSI standard Z535.1-2002 (Safety Color Code). These signs contain language warnings about the presence of H₂S/Poisonous Gas and high-pressure gas; they are posted at the Plant entrance and around the perimeter of the Plant and where isolation/block valves are located. The signs are of sufficient size to be readable at a distance of 50 feet and contain the words "Caution Poison Gas". Emergency response phone numbers are also posted at the entrance to the Plant, and there are signs at the Plant entrance requiring that all visitors sign-in at the Plant office. Targa does not have the authority to require individual producers/operators who send gas to the Plant for processing to conform to OCD and/or Department of Transportation (DOT) regulations relative to placement of warning signs at individual wells or on gathering lines. It is the responsibility of these individual operators to conform to appropriate regulations and to certify compliance with those regulations to those regulating agencies, as required

EMERGENCY EQUIPMENT

First Aid Equipment

The first aid stations are located at all Emergency Assembly Area and at other strategic locations throughout the plant.

GAS DETECTION EQUIPMENT

Fixed Monitors

The Red Hills Plant has numerous ambient hydrogen sulfide detectors placed strategically throughout the Plant to detect possible leaks. Upon detection of hydrogen sulfide at 10 ppm at any detector, visible beacons are activated and an alarm is sounded. Upon detection of hydrogen sulfide at 90 ppm at any detector, an evacuation alarm is sounded throughout the Plant at which time all personnel will proceed immediately to a designated evacuation area. The Plant utilizes fixed-point monitors to detect the presence of H₂S in ambient air. The sensors are connected to the Control Room alarm panel's Programmable Logic Controllers (PLCs), and then to the Distributed Control System (DCS). The monitors are equipped with amber beacons. The beacon is activated at 10 ppm. The plant and AGI Well horns are activated with a continuous warbling alarm at 10 ppm and a siren at 90 ppm. All monitoring equipment is Red Line brand. The Control Panel is a 24 Channel Monitor Box, and the fixed point H₂S Sensor Heads are model number RL-101.

Personal and Handheld H₂S Monitors

All personnel working at the Plant wear personal H₂S monitors. The personal monitors are set to alarm and vibrate at 10 ppm. Handheld gas detection monitors are available at strategic locations around the Plant so that plant personnel can check specific areas and equipment prior to initiating

maintenance or other work. The handheld gas detectors have sensors for oxygen, LEL (explosive hydrocarbon atmospheres), H₂S and carbon dioxide (CO₂).

RESPIRATORS

The plant is equipped with 30-minute SCBA respirators to use in the event of an evacuation. All Plant personnel are medically qualified, trained and fit tested annually to use SCBA respirators.

PROCESS PURGE SYSTEM

All vessels, pumps, compression equipment, and piping in the acid gas injection process are designed and equipped to allow purging with pipeline quality gas to remove the acid gas prior to conducting maintenance or inspection work. The purge gas stream with residual acid gas is routed safely into the acid gas flares located at the plant. All flares are equipped with autoignition fuel assist devices in compliance with 19.15.11.11(D) NMAC. Operating procedures include purging of all equipment to avoid acid gas exposure to personnel and to prevent acid gas from escaping to the environment.

**CHARACTERISTICS OF HYDROGEN SULFIDE (H₂S), SULFUR
DIOXIDE (SO₂) CARBON DIOXIDE (CO₂) [NMAC
19.15.11.9.B(2)(b)]**

HYDROGEN SULFIDE (H₂S)

H₂S is a colorless, toxic, flammable gas, and has the odor of rotten eggs. It is heavier than air and presents a significant health hazard by paralyzing the respiratory system resulting in serious injury or death.

| Hydrogen Sulfide Properties and Characteristics | | |
|---|---------|--|
| CAS No. | | 7783-06-4 |
| Molecular Formula | | H2S |
| Molecular Weight | | 34.082 g/mol |
| Ceiling Concentration | | 20 ppm (OSHA) |
| Ceiling Peak Concentration | | 50 ppm (OSHA) |
| Threshold Limit Value (TLV) | | 15 ppm (ACGIH) |
| Time Weighted Average (TWA) | | 10 ppm (NIOSH) |
| Short Term Exposure Level (STEL) | | 15 ppm (ACGIH) |
| Immediately Dangerous to Life or Health (IDLH) | | 100 ppm |
| Specific Gravity Relative to Air (Air=1.0) | | 1.189 |
| Boiling Point | | -76.5F |
| Freezing Point | | -121.8F |
| Vapor Pressure | | 396 psia |
| Auto-ignition Temperature | | 518F |
| Lower Flammability Limit | | 4.3% |
| Upper Flammability Limit | | 46.0% |
| Stability | | Stable |
| pH in water | | 3 |
| Corrosivity | | Reacts with metals, plastics, tissues and nerves |
| Physical Effects of Hydrogen Sulfide | | |
| Concentration | | Physical Effects |
| Ppm | % | |
| 1 | 0.00010 | Can be smelled (rotten egg odor) |
| 10 | 0.0010 | Obvious & unpleasant odor; Permissible exposure level; safe for 8-hour exposure |
| 20 | 0.0020 | Acceptable ceiling concentration |
| 15 | .005 | Short Term Exposure Limit (STEL); Safe for 15 minutes of exposure without respirator |
| 50 | 0.0050 | Loss of sense of smell in 15 minutes |
| 100 | 0.0100 | Immediately dangerous to life and health (IDLH) loss of sense of smell in 3-15 minutes; stinging in eyes & throat; Altered breathing |
| 200 | 0.0200 | Kills smell rapidly; stinging in eyes & throat |
| 500 | 0.0500 | Dizziness; Unconscious after short exposure; Need artificial respiration |
| 700 | 0.0700 | Unconscious quickly; death will result if not rescued promptly |
| 1000 | 0.1000 | Instant unconsciousness; followed by death within minutes |

SULFUR DIOXIDE (SO₂)

SO₂ is produced as a by-product of H₂S combustion. The waste gas stream consisting of H₂S and CO₂ is routed to the plant acid gas flare during abnormal conditions when the acid gas injection equipment is out of service. Waste gas is routed to the acid gas flare at the AGI Well sites during maintenance operations when equipment needs to be blown down. It is colorless, transparent, and is non-flammable, with a pungent odor associated with burning sulfur. SO₂ is heavier than air but can be picked up by a breeze and carried downwind at elevated temperatures. It can be extremely irritating to the eyes and mucous membranes of the upper respiratory tract.

| Sulfur Dioxide Properties & Characteristics | |
|---|--|
| CAS No. | 7446-09-5 |
| Molecular Formula | SO ₂ |
| Molecular Weight | 64.07 g/mol |
| Permissible Exposure Limit (PEL) | 5 ppm(OSHA) |
| Time Weighted Average (TWA) | 2 ppm(ACGIH) |
| Short Term Exposure Level (STEL) | 5 ppm(ACGIH) |
| Immediately Dangerous to Life and Health (IDLH) | 100 ppm |
| Specific Gravity Relative to Air (Air = 1.0) | 2.26 |
| Boiling Point | 14°F |
| Freezing Point | -103.9°F |
| Vapor Pressure | 49.1 psia |
| Auto-ignition Temperature | N/A |
| Lower Flammability Limit | N/A |
| Upper Flammability Limit | N/A |
| Stability | Stable |
| Corrosivity | Could form an acid rain in aqueous solutions |
| Physical Effects of Sulfur Dioxide | |
| Concentration | Effect |
| 1 ppm | Pungent odor, may cause respiratory changes |
| 2 ppm | Permissible exposure limit; Safe for an 8 hour exposure |
| 3-5 ppm | Pungent odor; normally a person can detect SO ₂ in this range |
| 5 ppm | Short Term Exposure Limit (STEL); Safe for 15 minutes of exposure |
| 12 ppm | Throat irritation, coughing, chest constriction, eyes tear and burn |
| 100 ppm | Immediately Dangerous To Life & Health (IDLH) |
| 150 ppm | So irritating that it can only be endured for a few minutes |
| 500 ppm | Causes a sense of suffocation, even with first breath |
| 1,000 ppm | Death may result unless rescued promptly. |

CARBON DIOXIDE (CO₂)

CO₂ is colorless, odorless and non-flammable. It is heavier than air.

| Carbon Dioxide Properties & Characteristics | |
|---|--|
| CAS No. | 124-38-9 |
| Molecular Formula | CO ₂ |
| Molecular Weight | 44.010 g/mol |
| Time Weighted Average (TWA) | 5,000 ppm |
| Short Term Exposure Level (STEL) | 30,000 ppm |
| Immediately Dangerous to Life and Health (IDLH) | 40,000 ppm |
| Specific Gravity Relative to Air (Air = 1.0) | 1.5197 |
| Boiling Point | -109.12°F |
| Freezing Point | -69.81°F |
| Vapor Pressure | 830 psia |
| Auto-ignition Temperature | N/A |
| Lower Flammability Limit | N/A |
| Upper Flammability Limit | N/A |
| Stability | Stable |
| pH in Saturated Solution | 3.7 |
| Corrosivity | Dry gas is relatively inert & not corrosive; can be corrosive to mild steels in aqueous solutions |
| Physical Effects of Carbon Dioxide | |
| Concentration | Effect |
| 1.0 % | Breathing rate increases slightly |
| 2.0 % | Breathing rate increases to 50% above normal level. Prolonged exposure can cause headache, tiredness |
| 3.0 % | Breathing rate increases to twice normal rate and becomes labored. Weak narcotic effect. Impaired hearing, headache, increased blood pressure and pulse rate |
| 4 – 5 % | Breathing increases to approximately four times normal rate, symptoms of intoxication become evident, and slight choking may be felt |
| 5 – 10 % | Characteristic sharp odor noticeable. Very labored breathing, headache, visual impairment, and ringing in the ears. Judgment may be impaired, followed within minutes by loss of consciousness |
| 10 – 100 % | Unconsciousness occurs more rapidly above 10% level. Prolonged exposure to high concentrations may eventually result in death from asphyxiation |

RADII OF EXPOSURE [NMAC 19.15.11.7. K]

WORST CASE SCENARIOS: The basis for worst case scenario calculations is as follows:

The worst-case ROE for this Plan has been calculated utilizing the inlet and TAG flow rates (24-hour rate) contained in the permit issued by OCD for this Plant which is 26 MMCFD. The ROE calculation in this Plan utilizes injection flow rate and an H₂S concentration of 20 mole percent.

The worst-case scenario ROE assumes an uncontrolled instantaneous release of a 24-hour volume of gas at the Plant. Because the Plant is a throughput process plant, it is impossible that the entire 24-hour throughput volume of the Plant could be released instantaneously as is assumed in the worst-case scenario calculations of the ROE. Further, the Plant's ESD systems would be activated in the event of a catastrophic emergency and would prevent the flow of gas into the Plant and would isolate the AGI compressors and equipment and route the acid gas safely to the Plant acid gas flare. To comply with NMAC 19.15.11, the worst-case scenario calculations (assuming an instantaneous release of the 24-hour processing and/or TAG volume) are utilized here.

The formulas for calculating the radius of exposure (ROE) are as follows:

100 ppm ROE Calculation (as per 19 NMAC 15.11.7.K.1):

$$X = [(1.589)(\text{hydrogen sulfide concentration})(Q)](0.6258)$$

500 ppm ROE Calculation (as per 19 NMAC 15.11.7.K.2):

$$X = [(0.4546)(\text{hydrogen sulfide concentration})(Q)](0.6258)$$

Where:

- X = radius of exposure in feet
- "hydrogen sulfide concentration" = the decimal equivalent of the mole or volume fraction of hydrogen sulfide in the gaseous mixture
- Q = Escape rate expressed in cubic feet per day (corrected for standard conditions of 14.73 psi absolute and 60 degrees Fahrenheit)

ROE FOR RED HILLS PLANT WORST CASE SCENARIO

500-ppm ROE 9,741 feet 1.84 miles)

100-ppm ROE 21,318 feet (4.04 miles)

The ROE for the Plant and AGI Well are shown on Figure 3. This ROE pattern is designed to include the 100 ppm and 500 ppm radii for a potential worst-case failure at any point in the system.

FACILITY DESCRIPTION, MAPS AND DRAWINGS [NMAC 19.15.11.9.B (2)(c)]

DESCRIPTION OF PLANT OPERATIONS AND RED HILLS AGI WELLS

The Plant and AGI Wells are in operation and are manned 24-hours-a-day, 7-days-a week. The Plant operations include gas compression, treating and processing. The Plant gathers and processes produced natural gas from Lea and Eddy Counties in New Mexico. Once gathered at the Plant, the produced natural gas is compressed, dehydrated to remove the water content and processed to remove and recover natural liquids. The processed natural gas and recovered natural gas liquids are then sold and shipped to various customers. The inlet gathering lines and pipelines that bring gas into the plant are regulated by DOT, NACE and other applicable standards which require that they be constructed and marked with appropriate warning signs along their respective rights-of-way.

Figure 2 shows the major process units and all process major process equipment for both of the sweet gas plant areas (Cryo1 -6) and the Sour Gas Treater (AGI 1 & 2) to the east. Sweet gas enters the facility from both the east and west. Sour gas will enter the new sour treating facility from the east. This enters the sour slug catcher. Sour gas travels from the sour slug catcher to the sour amine plant (new plant). From here acid gas is routed to the Acid Gas Compressor and to the AGI well. In the event of Acid Gas Compressor shut down Acid Gas will be routed to the Sour Flare and inlet sour gas will be shut in. Sweet gas from the Sour Treater is sent to the inlet sweet lines that enter the facility from the east and west. Sweet gas is routed to the sweet slug catcher associated with Cryo Plant 1. After the sweet slug catcher sweet gas is split between Cryo 1 and Cryo 2. Fixed gas sensors on the sweet outlet of the sour treater facility will actuate an ESD valve that will shut off sweet gas from the sour treater should H₂S above 4 ppm be sensed downstream of the treater. SCBAs and cascade trailers are located in the control room and associated shop at Cryo 1. Emergency escape packs are located throughout the sour gas treater. If alarms sound in the sour gas treater area operators are to use an emergency escape pack to safely leave the area if necessary. There are emergency escape packs in the sour gas treater area (some locations depicted will have 2) and there will be SCBAs in the control room. Each Operator will be outfitted with a face mask that can be connected to the air from the cascade trailers.

Because the natural gas that is gathered and processed at the Plant contains H₂S ("sour gas"), it must be treated or processed to remove these and other impurities. The CO₂ and H₂S stream that is removed from the natural gas in the amine treating process is compressed to approximately 1,500 – 2,644 psi. This is accomplished using electric driven, reciprocating compressors. Water vapor contained in the gas stream is removed during compression and cooling and is disposed of through a wastewater disposal system.

The compressed acid gas is transported via an overhead stainless steel, corrosion-resistant, NACE-compliant pipe, approximately 300 feet in length, from the compressor to the AGI Wells where it is injected into various formations depending on which well it enters. The pipe between the compressors and the AGI Wells are contained totally within the boundaries of the Plant and does not cross any public roads. H₂S sensors are located at critical junctions along the pipe which is run on an overhead pipe rack. The pressure in the pipe is monitored continuously so that the acid gas injection process could be stopped should there be any unusual variations in pressure.

The AGI Wells are an integral component of the Red Hills Gas Plant design. Each well includes a

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downhole” subsurface safety valve (SSV) which is located below the surface on the production tubing to assure that fluid cannot flow back out of the well in the event of a failure of the injection equipment. In addition, the annular space between the projection tubing and the well bore are filled with corrosion-inhibited diesel fuel (an inert fluid) as a further safety measure which is consistent with injection well designs that have been approved by NMOCD for acid gas injection.

Per National Association of Corrosion Engineers (NACE) specifications, downhole components including the SSV and packers are constructed of corrosion resistant alloy (CRA). CRA casing and tubing joints are also constructed of CRA material. The gates, bonnets and valve stems within the Christmas trees are CRA material as well. The rest of the Christmas trees are made of standard carbon steel components and outfitted with annular pressure gauges that remotely report operating pressure conditions in real time to a gas control center. Pursuant to NMAC 19.15.11.12.D(2), in the case of abnormal pressures or any other situation requiring immediate action, the acid gas injection process can be stopped at the compressor, and the wellheads can be shut-in using a hydraulically operated wing valve on the Christmas trees. The Plant operator or IC may also shut the SSVs. In addition, the injection tubing has profile nipples which provide the ability to insert a blanking plug into the base of the well below the packer which would allow for the safe reentry into the well, if needed. These safety devices provide for downhole accessibility and reentry under pressure for permanent well control. The SSV provides a redundant safety feature to shut-in the well in case the wing valves do not close properly. All of the control equipment on the wells are designed and constructed in a manner such that under a worst-case scenario the well can be safely reentered under pressure to obtain permanent well control consistent.

MAPS AND FIGURES

Figure 1 shows the location of the Red Hills Plant and AGI Wells. The plot plan of the Plant is the base for Figure 2 and shows the locations of safety equipment and an emergency evacuation route at the plant. Figure 3 shows the 100 and 500 ppm ROE, roadblock locations, emergency assembly areas and Figure 4 is an example of an H₂S warning sign. Figure 5 shows the Sour Gas Pipeline from Gathering System and Compressor Station in Texas to Red Hills Plant.

TRAINING AND DRILLS [NMAC 19.15.11.9.B(2)(d)]

Targa will conduct annual training for its own personnel as well as for the public and emergency responders, as detailed below. Training will include:

- Characteristics of H2S and safety precautions.
- An overview of the Red Hills Plant and AGI operations.
- A review of their roles in responding to activation of the Red Hills H2S Contingency Plan.
- Location of the Radii of Exposure and how to protect the public within the Radii of Exposure.
- Potential roadblock locations, potential evacuation routes, and how they can assist in implementing the Plan.

TRAINING OF ESSENTIAL PERSONNEL

Annual training for Red Hills personnel shall include plant operators, mechanics, instrument and electrical technicians, and maintenance support personnel. Plant Operators will be responsible for initiating and implementing the H2S Contingency Plan. In addition, all Plant personnel will receive: Annual training on the H2S Contingency Plan. This training will include a review of all aspects of the Plan and will include, at a minimum, one table top drill involving activation of the Plan.

Plant Orientation Training - All Plant personnel, visitors, and contractors must attend a Plant overview orientation prior to obtaining permission to enter the Plant. A refresher course on this training is required annually for all persons. Included as part of this orientation is how to respond and evacuate safely in the event of a H2S alarm or release. This training also complies with the requirements of Plant Process Safety Management Program and Procedures Manuals.

All Plant personnel are also trained annually on the Red Hills Emergency Response Plan.

- H2S and SO2 Training - All Plant personnel must be H2S certified and must also receive annual refresher training on H2S and SO2, which is conducted by Red Hills personnel. Individuals must maintain their H2S certification to work at the plant. If an individual is unable to attend, they may be required to attend a third-party training session. All contract employees are required to have had H2S training and to provide the Plant a copy of their certification card prior to obtaining permission to enter the Plant.
- Respirators - All Plant personnel are trained annually on the proper use of respirators. In addition to the annual training, all Plant personnel are fit-tested annually on the respirators. All Plant personnel must have medical clearance for respirator use.
- Hazard Communication - All Plant personnel are trained annually on Hazard Communication. The annual training includes, at a minimum, the use of material safety data sheets (MSDS) for those materials that are present at the Plant.
- Personal Protective Equipment (PPE) - All Plant personnel are trained annually on the Targa requirements for PPE. The training includes, at a minimum, a review of all the types and levels of personal protective equipment and how to select the correct equipment for the job.

ON-SITE OR CLASSROOM EMERGENCY RESPONSE DRILLS

The Plant will conduct, at least, a tabletop drill annually. Multiple drills during the year may be scheduled at the discretion of the Plant Supervisor.

The annual drill will execute this Plan and will invite, at a minimum, the Public Officials and Local Emergency Response Agencies listed below.

Annual training will also include making contact with the entities including any that are identified as

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being within the 500 ppm and 100 ppm ROE.

The drills will also include briefing of public officials on issues such as evacuation or shelter-in-place plans.

NOTIFICATION AND TRAINING OF PRODUCERS LOCATED WITHIN THE ROE

Targa will provide annual training to the producers listed in Appendix C that includes:

- An overview of the Plant and AGI operations.
- Design and operating safety features on the Plant.
- A review of the H2S alarms and significance.
- Notification procedures.
- Roadblock locations.
- Potential evacuation routes.
- Procedures for sheltering in place.
- Radii of exposure.

TRAINING OF PUBLIC OFFICIALS AND EMERGENCY RESPONSE AGENCIES

All of the Emergency Response Agencies listed in Appendix C will have copies of the H2S Contingency Plan and will be offered training from Targa:

- NM State Police-Hobbs and Office
- Lea County 911 Emergency Response
- Lea County Emergency Planning Committee
- Hobbs Police Department
- Lea County Sherriff's Department
- Hobbs Fire Department
- New Mexico Oil Conservation Division-Hobbs District Office

Training for emergency response agencies will include:

- An overview of the Plant and AGI operations
- Design and operating safety features on the Plant
- A review of the H2S alarms and significance
- Notification procedures
- Roadblock locations
- Potential evacuation routes
- Procedures for sheltering in place
- Radii of exposure

The Red Hills Plant will also conduct, at a minimum, one annual tabletop drill involving the Emergency Response Organizations listed above on the activation of the Plant H2S Contingency Plan.

TRAINING AND ATTENDANCE DOCUMENTATION [NMAC 19.15.11.9 G]

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Per NMAC 19.15.11.9.G drill training will be documented, and those records will be maintained at the Plant and will be available to an OCD representative upon request. The documentation shall include at a minimum the following:

- Description or scope of the drill, including date and time
- Attendees and Participants in the drill
- Summary of activities and responses
- Post-drill debriefing and reviews

**COORDINATION WITH STATE EMERGENCY PLANS [NMAC
19.15.11.9.B(2)(e)]**

NOTIFICATIONS AND REPORTS

The Plant has various notification and reporting obligations. Some are related to its state air quality permit that is overseen by NMED as well as state and federal spill reporting obligations. In addition to the regulatory obligations noted above, Plant personnel also have internal and external notification and reporting obligations associated with the activation of this Plan. Reporting obligations are as follows:

New Mexico Oil Conservation Division (OCD) [NMAC 19.15.11.16]

As soon as possible, but no later than four hours after plan activation, (recognizing that a prompt response should supersede notification), OCD will be notified by the IC or the IC's designee via phone or email of the activation of the H2S Contingency Plan. In the event of a power failure, a phone call will be made within four hours. A full report of the incident to the OCD, utilizing Form C-141 shall be made no later than 15 days following the release (see Appendix F).

New Mexico State Police/ New Mexico Hazardous Materials Emergency Response Plan

The New Mexico State Police are responsible for overall scene management and coordination of all resources. A designated Emergency Response Officer (ERO) will establish the National Interagency Incident Management System (NIIMS) Incident Command System (ICS) as the Incident Commander (IC) and be responsible for management of all response resources on scene. Off-scene coordination of response resources will be handled through designated Headquarters Emergency Response Officers. Law enforcement-related activities will be coordinated by State Police.

PLAN ACTIVATION [NMAC 19.15.11.9.C]

The plan will be activated at various levels (1 through 3) beginning with detection of uncontrolled release of 10 ppm H₂S at any monitor and as described in the Immediate Action Plans and shown in the Response Flow Diagrams in Appendices A and B, respectively. At a minimum, Per NMAC 19.15.11.8.C, the Plan also shall be activated at Level 3 (see Appendices A and B for detail) whenever a release may create an H₂S concentration of more than 100 ppm in a public area, 500 ppm at a public road or 100 ppm 3,000 feet from the site of release.

ACTIVATION LEVELS

The Plan has three activation levels that are described in detail in the Immediate Action Plan Section of this Plan (see Appendix A) and in outline form in the Response Flow Diagrams (see Appendix B).

Level 1 - Continuous warbling alarm sounded and amber beacons activated for H₂S greater than 10 ppm at personal or fixed monitor. (See Appendices A, Level 1, and Appendix B Level 1 for detail.)

Level 2 - Continuous siren sounded and amber beacons activated for H₂S greater than 90 ppm; when corrective actions at Level 1 have been unsuccessful or when Operators activate ESD. Notification of operators, businesses, public, BLM and state agencies initiated. (See Appendices A, Level 2 and B, Level 2 for detail.)

Level 3 - Catastrophic release; fire; explosion; a continuous release of maximum volume for 24 hours; or Rule 11 mandatory activation for 100 ppm in any defined public area; 500 ppm at any public road; or 100 ppm at a distance greater than 3000 feet from the site or the release. Notification of operators, businesses, public, and state agencies is initiated. (See Appendices A, Level 3 and B, Level 3 for detail.)

As soon as the Plan has been activated based on the criteria above, the Plant Supervisor, or designee, will be notified.

EVENTS THAT COULD LEAD TO A RELEASE OF H₂S

Inlet and plant piping failure

Amine still failure (This would be a leak in the amine process equipment, or amine still utilized to separate methane from H₂S and CO₂.)

Flange/gasket leaks on inlet and plant piping

Flange/gasket leak on the acid gas compressors

Flange/gasket or valve packing leak at the AGI Well or associated piping

Valve packing failure

Seal failure on acid gas compressors

Failure of flare to ignite during Plant emergency blow down

Damage to AGI Wellhead

SUBMISSION OF H₂S CONTINGENCY PLANS [NMAC 19.15.11.9.D]

SUBMISSION

Targa submitted this H₂S Contingency Plan to the OCD for review and approval.

Targa shall maintain a copy of the contingency plan at their Red Hills Facilities. The plan as approved by the OCD will be readily accessible for review by the OCD at the facility upon request.

REVISIONS TO THE PLAN

The H₂S Plan will be reviewed annually and revised at that time as necessary to address changes to the Plant facilities, operations, or training requirements, contact information and the public areas including roads, businesses, or residents potentially affected by the operations of the Plant and sour gathering, AGI Wells, specifically those areas within the radii-of-exposure.

ANNUAL INVENTORY OF CONTINGENCY PLANS

Targa will file an annual inventory of wells, facilities and operations for which H₂S Contingency Plans are on file with the OCD with the appropriate Local Emergency Planning Committee (LEPC) and the State Emergency Response Commission as per NMAC 19.15.11.9H. The inventory shall include the name, address, telephone number, and point of contact for all operations for which H₂S Contingency Plans are on file with the OCD

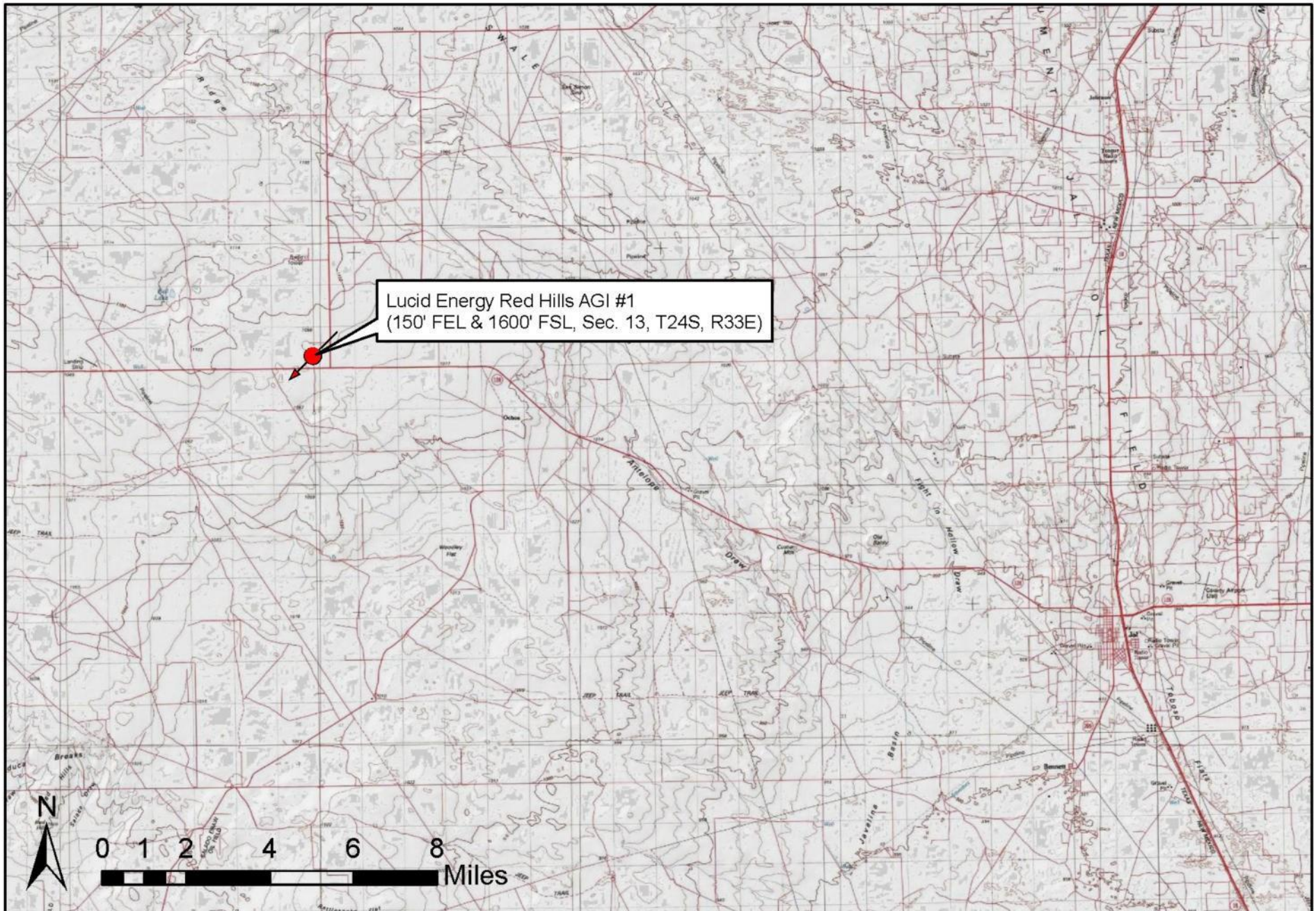
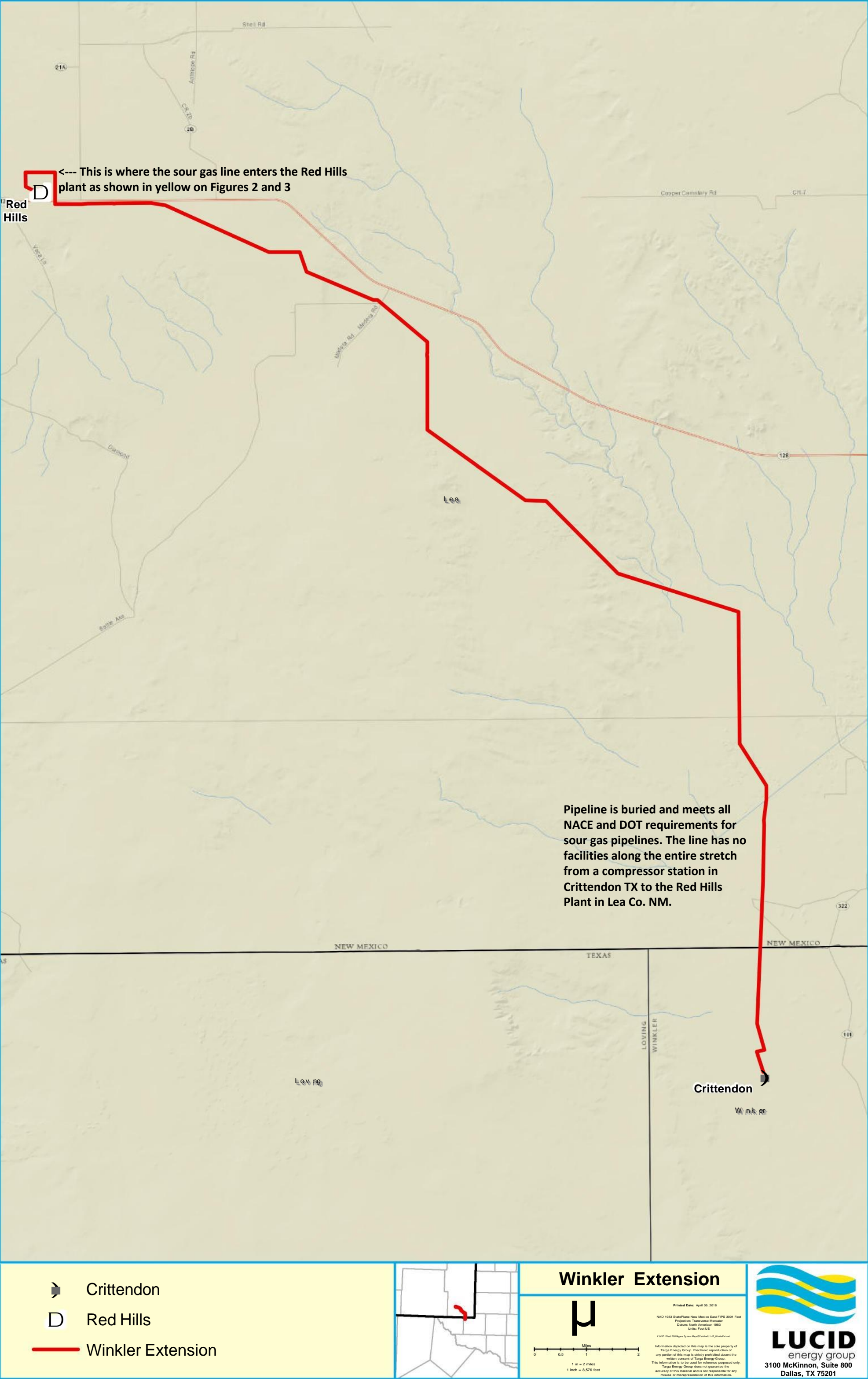


Figure 1: Location of Targa Red Hills AGI Wells



Figure 4 Example H₂S Warning Sign



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Figure 3 Sour Gas Pipeline from Gathering System and Compressor Station in Texas to Red Hills Plant

APPENDICES

APPENDIX A

IMMEDIATE ACTION PLANS

LEVEL 1 ACTIVATION

Activating Conditions:

- H₂S of 10 ppm or greater detected at any fixed monitor.
- When any person, discovers a leak or emission release they are to attempt to resolve the issue as long as H₂S levels remain at 10 ppm or below. If the response action needed to resolve the issue is more than simply closing a valve or stopping a small leak, the individual who has discovered the leak shall notify the Control Room Operator who will contact the Plant Supervisor or his designee so that the Plant Supervisor can activate the H₂S Contingency Plan, if necessary

Alarms and Automated Activations:

- Amber beacons and a continuous warbling alarm are activated if any fixed monitor senses H₂S at 10 ppm or greater. The alarm and amber lights are redundant systems which function independently of one another so that should one system fail, the other would remain active. These systems incorporate backup battery capabilities insure their operation in the event of a power failure.
- A computer in the Control Room and in the office of the Plant Supervisor establishes the location of the monitor(s) at the Plant or Well-site that has activated the alarm and flashing amber beacons.

All employees also wear personal monitors that sound an audible alarm at 10 ppm H₂S or greater. Actions when Plan is Activated:

- At the initial sound of an audible alarm or the sight of an amber beacon, responding Operator(s) in the vicinity of the alarm will put on 30-minute Self-Contained Breathing Apparatus (SCBA) and evacuate to Emergency Assembly Area 1.
- All other personnel in the Plant complex shall immediately proceed to Emergency Assembly Area 1 (see Figure 2).
- Control Room Operator and Plant Supervisor will be notified of the release. Plant Supervisor or designee will assume the role of IC. The Control Room Operator will remain in the control room, identify the location(s) of the alarms and monitor H₂S concentrations throughout the Plant.
- If a perimeter monitor (see Figure 2) detects 10 ppm H₂S or greater, all entities and individuals located within the 500 ppm ROE (see Figure 3) will be notified by the IC or designee that a release is occurring and to stand by for further instructions. Entities will be advised to alert their employees and any third parties working for them, or imminently scheduled to work in the area, of the release and to leave the area and not return until further notice. (Phone numbers are listed in Appendix C).
- If deemed necessary, Plant personnel as designated by the IC will contact local emergency response service providers (phone numbers provided in Appendix C).
- All personnel will be accounted for at Emergency Assembly Area 1 using the Plant sign in sheet and air quality will be monitored for H₂S concentrations. If H₂S concentrations reach 10 ppm or greater at Emergency Assembly Area 1, all personnel will be evacuated to Emergency Assembly Area 2 (see Figures 3 and 4).
- Responding Operator(s) approach from up wind and monitoring their way in with an portable H₂S monitor will assess the location of the alarm and attempt to make an initial determination of its cause and rule out potential false alarms based on sensor malfunction or other conditions. If the cause of the release is a minor problem such as a packing or seal leak, the Operator(s) will attempt to take the necessary steps to correct the situation and eliminate the source of the release.
- If corrective actions are successful, and the release is resolved and monitored H₂S levels in the Plant return to less than 10 ppm, the IC or designee will signal all clear, and personnel will be allowed to sign in and re- enter the Plant to resume work.

- If the release is not resolved and H₂S levels continue to rise IC will initiate a Level 2 Response and/or instruct Operators to initiate Plant ESD.
- The IC will initiate and maintain a Chronologic Record of Events Log (see Appendix F).
- The Plant Supervisor or designee will contact the Oil Conservation Division (OCD) district office within 4 hours of a release that activates the plan at Level 1. Per 19.15.11.16 NMAC, notification of Contingency Plan implementation will be submitted to the OCD via form C-141 within 15 days of release.

LEVEL 2 ACTIVATION

Activating Conditions:

Corrective actions at Level 1 are unsuccessful;

- 90 ppm of H₂S or greater is detected at any fixed monitor.
- Operators activate ESD. Alarm and Automated Activations:
- Continuous siren and amber lights will be activated. The siren and flashing lights are redundant systems which function independently of one another so that should one system fail, the other would remain active. These systems incorporate backup battery capabilities which insure their operation in the event of a power failure.

Actions:

- The responding Operator(s), will evacuate to Emergency Assembly Area 2 (see Figure 3).
- The Plant Supervisor and the Control Room Operator will be notified. The Plant Supervisor, or designee, will assume the role of IC. The Control Room Operator will put on SCBA, remain in the control room and monitor H₂S concentrations throughout the Plant.
- All personnel will be evacuated to Emergency Assembly Area 2 (see Figure 4).
- At Emergency Assembly Area 2, all personnel will be accounted for using the Plant sign-in list, and air quality will continue to be monitored for H₂S at Emergency Assembly Area 2.
- If two or more monitors within the AGI fenced area or around the AGI compressor (see Figure 2) detect 90 ppm H₂S or greater, AGI compression will be shut down.
- Plant ESD can be activated at any time by the Red Hills Plant Operators as they and the IC determine that conditions are appropriate for such action.
- Incident Command Center (ICC) will be established at Emergency Assembly Area 2.
- A media staging area adjacent to Emergency Assembly Area 2 will be established and all media will be directed to it.
- IC will designate personnel with H₂S monitors and emergency trailers to move to the designated Level 2 (500 ppm ROE) roadblock areas shown on ROE map. SR 128 will be blocked to prevent entry into the 500 ppm ROE (see Figure 4). Air quality will be monitored at each road block.
- Emergency Responders, local law enforcement BLM and state agencies, including the OCD District Office (phone numbers provided in Appendix C) will be notified of the release and the status of containment by the IC or designee.
- Designated personnel will notify all entities, individuals and producers within the 500 and 100 ppm ROE (phone numbers provided in Appendix C) of the nature of the release and the status of containment. All will be instructed to evacuate, or shelter in place, depending on the nature of the release and the prevailing wind conditions. They will be instructed to immediately alert all company personnel, third party contractors and/or service companies working in the area and those imminently scheduled to work in the area of the Plant evacuation status and advise them to leave and not reenter the Plant vicinity until further notice. All will be advised of the roadblocks on SR 128.
- If release is resolved and monitored levels of H₂S in the Plant are less than 10 ppm, IC or designee may authorize personnel to return to the Plant.
- All entities and individuals previously notified will be informed that the release has been resolved and advised of the current monitored H₂S levels. Roadblocks will be recalled, and traffic will be restored.
- If monitored H₂S levels at Emergency Assembly Area 2 or Level 2 roadblocks exceed 10 ppm, all personnel will evacuate to General Emergency Assembly Area 3, ICC and media staging area will also be moved to Assembly Area 3.
- If the release is not resolved or H₂S levels continue to increase, IC will initiate a Level 3 Response.
- The IC will initiate and maintain a Chronologic Record of Events log. (Appendix F)
- The Plant Supervisor or designee will contact the Oil Conservation Division (OCD) district office within 4 hours of a release that activates the plan at Level 1. Per 19.15.11.16 NMCA, notification of Contingency Plan implementation will be submitted to the OCD via form C-141 within 15 days of release.

LEVEL 3 ACTIVATION

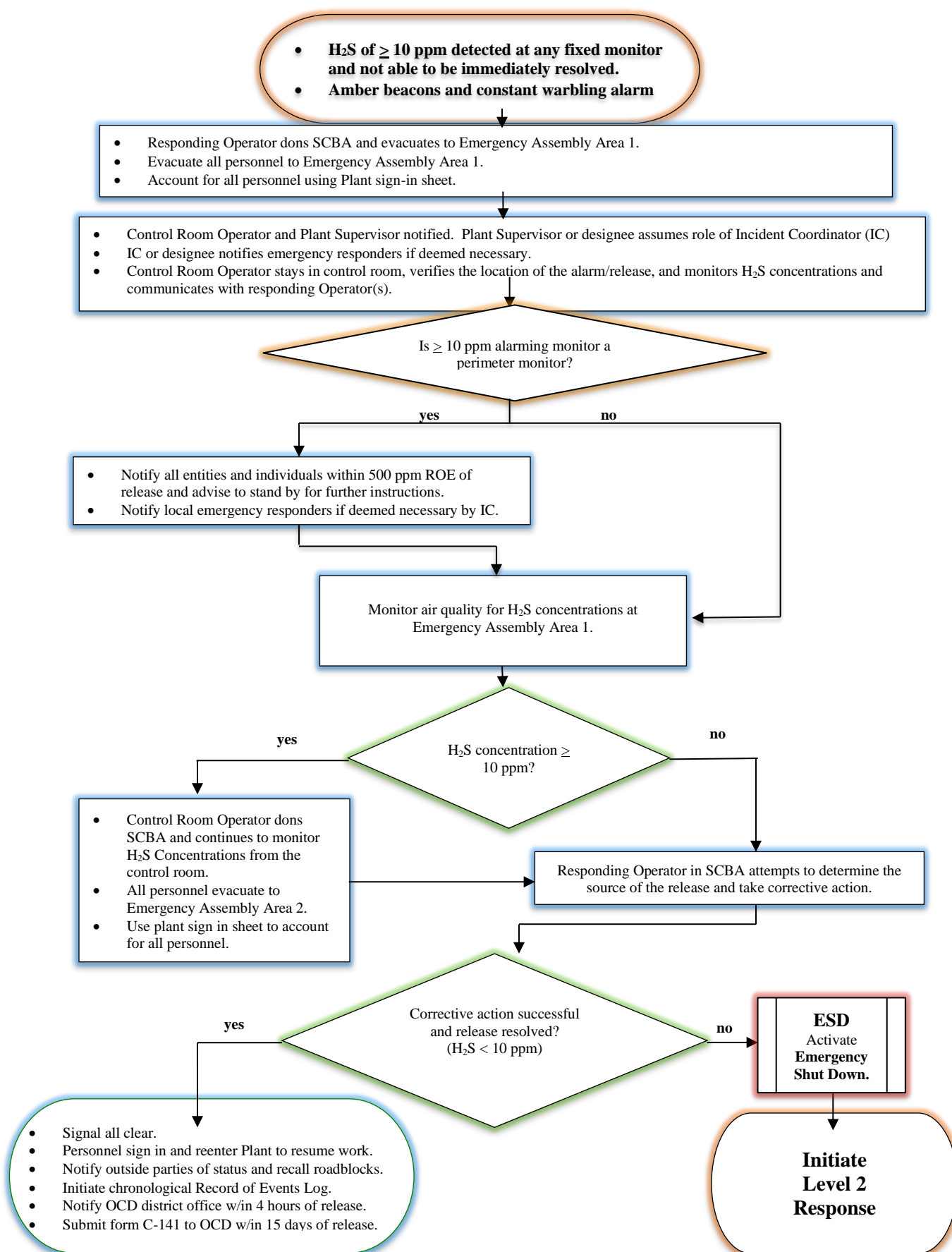
Activating Conditions:

- Corrective actions at Level 2 are unsuccessful;
- H₂S concentrations reach 10 ppm or greater at Emergency Assembly Area 2;
- H₂S concentrations reach 10 ppm or greater at Level 2 roadblocks;
- A catastrophic release, fire or explosion has occurred;
- A continuous release of maximum volume for 24 hours occurs;
- As per NMAC 19.15.11 there is indication of 100 ppm H₂S in any defined public area, 500 ppm at any public road, or 100ppm at a distance greater than 3,000 feet from the site of the release.

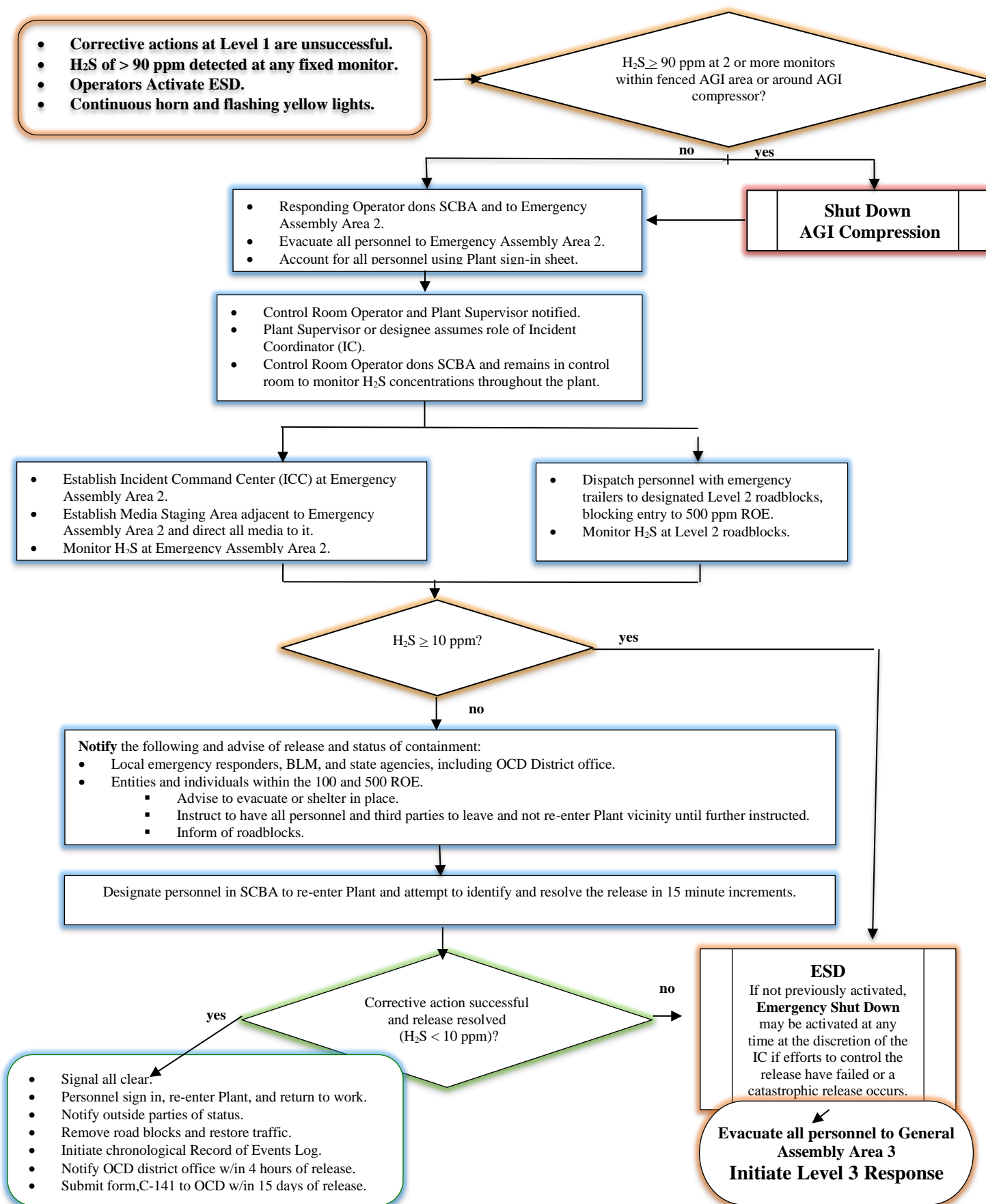
Actions:

- All personnel should be evacuated to and accounted for at Emergency Assembly Area 3 using the Plant sign in sheet, and air quality will be monitored for H₂S concentrations (see Figure 4).
- IC shall have activated or will immediately activate Plant ESD.
- The ICC and media staging area shall be established and/or moved to Emergency Assembly Area 3.
- Dispatch personnel with emergency trailers to move or establish designated Level 3 roadblocks at SR 128, and SR 21 (Delaware Basin Road) to prevent entry into the 100 ppm ROE (see Figure 4). Monitor H₂S concentrations at the roadblocks.
- Local emergency responders, and state agencies, including the OCD District Office, will be notified of the release and status of containment (phone numbers provided in Appendix C).
- All individuals and entities within the 100 ppm ROE will already have been notified to evacuate or shelter in place. IC will review the status of evacuation and make the final decision whether individuals within the 100 ppm ROE should evacuate or shelter in place based on, but not limited to H₂S concentration, wind conditions and whether a safe evacuation can be implemented. If individuals within the 100 ppm ROE are instructed to evacuate, IC will recommend an evacuation route. All entities will be instructed to immediately alert all company personnel, third party contractors and/or service companies working in the area and those imminently scheduled to work in the area of the Plant evacuation status and advise them to leave and not enter or re-enter the Plant vicinity until further notice. All will be advised of the roadblocks SR 128 and SR 21 (Delaware Basin Road).
- If escaping vapors have been ignited, the vapors should be allowed to continue to burn unless the fire endangers personnel, the public, other property, or other equipment.
- Once release is resolved and monitored levels of H₂S in the Plant are less than 10 ppm, IC or designee may authorize personnel to sign in and return to the Plant.
- All entities and individuals previously notified will be informed that the release has been resolved and advised of the current monitored H₂S levels at the Plant. Roadblocks will be recalled and traffic will be restored.
- The IC will initiate and maintain a Chronologic Record of Events log. (Appendix F)
- The Plant Supervisor or designee will contact the Oil Conservation Division (OCD) district office within 4 hours of a release that activates the plan at Level 1. Per 19.15.11.16 NMAC, notification of Contingency Plan implementation will be submitted to the OCD via form C-141 within 15 days of release.

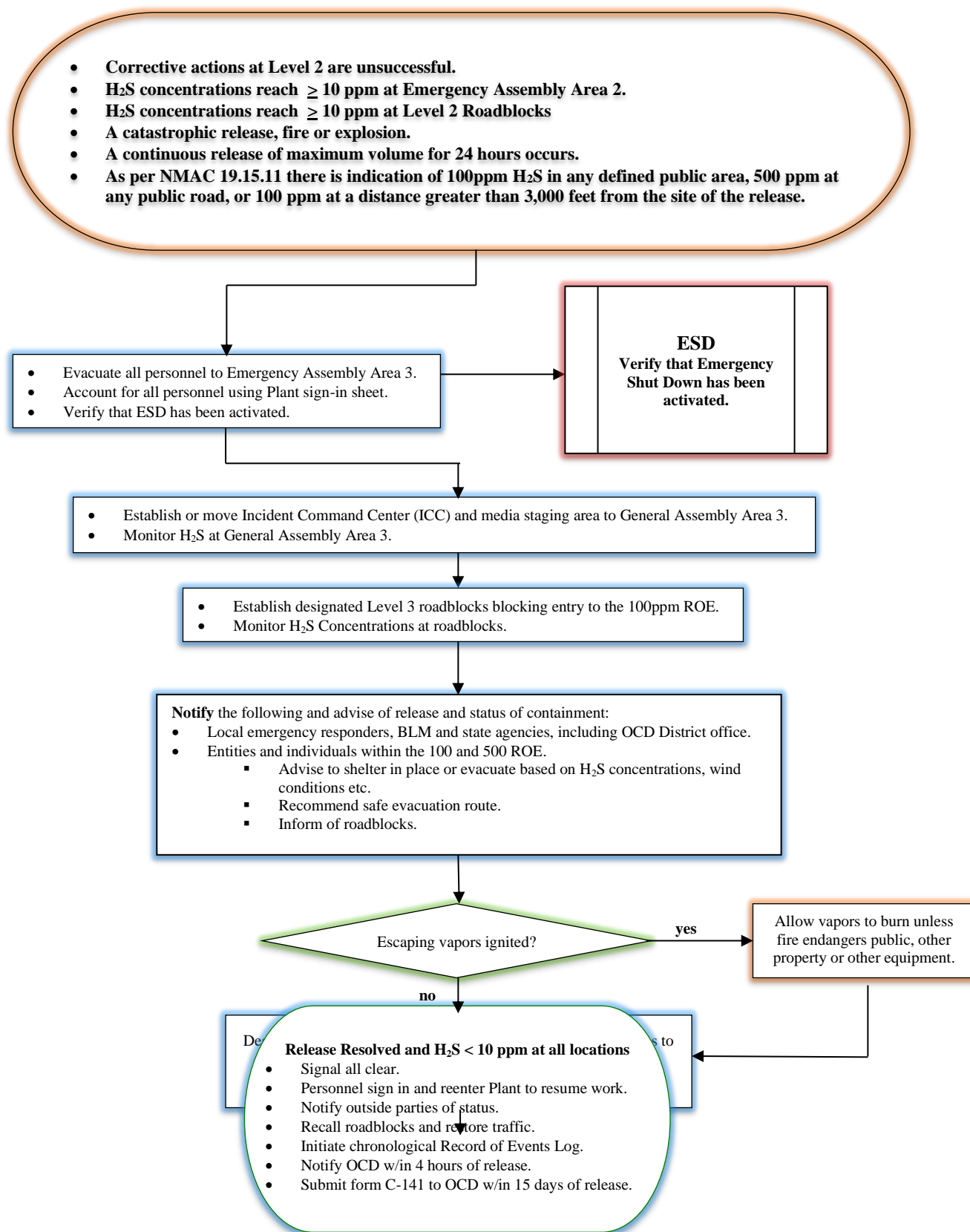
Red Hills Gas Plant—Level 1 Activation Response Flow



Red Hills Gas Plant —Level 2 Activation Response Flow



Red Hills Gas Plant—Level 3 Activation Response Flow



APPENDIX C TELEPHONE NUMBERS EMERGENCY CALL LIST

BUSINESSES PUBLIC RECEPTORS and PRODUCERS WITHIN THE ROE

| BUSINESS/RECEPTOR | OFFICE ADDRESS | Office Phone |
|--------------------------------|--|--|
| Xcel Energy | 4201 Frankford Lubbock, TX 79407 Colby Morris 806-778-3611 | 800-687-8496 (Transmission) 612-330-6900 (Security) 806-796-3250 (Distribution) |
| InSite Towers, LLC | 1199 North Fairfax Street, Suite 700 Alexandria, VA 22314 | 806-548-0626 Terry Reynolds, Operations Mgr. |
| | | |
| PRODUCER | OFFICE LOCATION | Office Phone |
| 100 ppm ROE | | |
| COG Operating | One Concho Center 600 West Illinois Avenue Midland, TX 79701 | 432-683-7443 |
| | | |
| PUBLIC AREAS WITHIN THE ROE | There are no Public Areas within the ROE | |

TARGA COMPANY INTERNAL NOTIFICATIONS

| NAME | TITLE | PHONE |
|---------------|-------------------------|--------------|
| Kevin Smith | Operations Manager | 817-975-3725 |
| Jason Fuentes | Operations Area Manager | 575-513-9934 |
| Cindy Klein | Area ES&H Manager | 575-631-7093 |
| Cody McArthur | Area Safety Supervisor | 432-556-6680 |
| Michael Ellis | Training/Safety Manager | 575-361-2832 |

EMERGENCY RESPONDERS

| AGENCY | PHONE |
|---------------------------------|--------------|
| Emergency Dispatch | 911 |
| Hobbs Fire Department | 575-397-9308 |
| Hobbs Police Department | 575-397-9265 |
| Hobbs Ambulance Service | 575-397-9308 |
| New Mexico State Police (Hobbs) | 575-392-5588 |
| Lea County Sheriff's Office | 575-396-3611 |

| | |
|---|--------------|
| Hobbs-Lea Regional Medical Center | 575-492-5000 |
| Lubbock University Medical Center (UMC) (Level 1 Trauma Center) | 800-345-9911 |
| American Association of Poison Control Centers | 800-222-1222 |
| HELICOPTER SERVICES Lubbock University Medical Center Transfer to Level 1 Trauma Center | 800-345-9911 |

COUNTY AND LOCAL LAW ENFORCEMENT AND PUBLIC AUTHORITIES AND LOCAL
GOVERNMENT AGENCIES

| AGENCY | PHONE NUMBER |
|--|----------------------------------|
| Oil Conservation Division Santa Fe Office District 1 Office, Lea County (Hobbs) | (505) 476-3441 (575) 241-7063 |
| Local Emergency Planning Committee (LEPC) Lea County | 575-396-8607 |
| New Mexico State Police (Hobbs) | 575-392-5580 |
| Lea County Sheriff's Office | 575-396-3611 |
| National Response Center (NRC) Response Center | 800-424-8802 |
| New Mexico Department of Homeland Security & Emergency Management (NMDHSEM) | 505-476-9600 |
| New Mexico Department of Public Safety | 505-827-9000 |

APPENDIX D
H2S PLAN DISTRIBUTION LIST

New Mexico Oil Conservation Division, Santa Fe Office New Mexico Department of Public Safety (State Office) Lea County LEPC/Emergency Manager*
Red Hills Plant Supervisor's Office Red Hills Plant Control Room Targa Corporate Office
Red Hills Plant Emergency Trailers New Mexico State Police, Hobbs Office
State of New Mexico Emergency Response Commission (SERC)

*Note: Lea County LEPC Emergency Manager will make and send copies of this plan to appropriate entities within his jurisdiction, including the Hobbs Fire Department.

| | | |
|-------------------|--|-----------|
| 7. Prepared by: | | Date/Time |
| UNIT/ACTIVITY LOG | | ICS 214 |

APPENDIX F NEW MEXICO OIL CONSERVATION DIVISION FORM C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action**OPERATOR**☐ Initial Report ☐ Final Report

| | | |
|-----------------|---------------|---------|
| Name of Company | Contact | |
| Address | Telephone No. | |
| Facility Name | Facility Type | |
| Surface Owner | Mineral Owner | API No. |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|

Latitude _____ Longitude _____

NATURE OF RELEASE

| | | |
|--|---|---------------------------------------|
| Type of Release | Volume of Release | Volume Recovered |
| Source of Release | Date and Hour of Occurrence | Date and Hour of Discovery |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |
| If a Watercourse was Impacted, Describe Fully.* | | |
| Describe Cause of Problem and Remedial Action Taken.* | | |
| Describe Area Affected and Cleanup Action Taken.* | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | |
| Signature: | | OIL CONSERVATION DIVISION |
| Printed Name: | | Approved by Environmental Specialist: |
| Title: | Approval Date: | Expiration Date: |
| E-mail Address: | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: | Phone: | |

* Attach Additional Sheets If Necessary

Targa RH Contingency Plan 45

HYDROGEN SULFIDE CONTINGENCY PLAN REVISION INFORMATION

| Date Revised | Revision by Whom | Changes Made |
|--------------|----------------------------------|--|
| 08-29-2023 | Cal Wrangham Cody McArthur | Added AGI Treater plant #2 and AGI well #3 |
| 01/08/2024 | Cody McArthur Cal Wrangham | Corrected and updated miss named figures. Corrected references. |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 302908

CONDITIONS

| | |
|--|--|
| Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119 | OGRID: 331548 |
| | Action Number: 302908 |
| | Action Type: [UF-H2S] H2S Contingency Plan (H2S Plan) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| joel.stone | None | 2/6/2024 |