

GW - 028

NM OSHA

Chavez, Carl J, EMNRD

From: VonGonten, Glenn, EMNRD
Sent: Friday, October 26, 2012 9:47 AM
To: Bailey, Jami, EMNRD; Sanchez, Daniel J., EMNRD; Lowe, Leonard, EMNRD; Chavez, Carl J, EMNRD; Jones, Brad A., EMNRD; Hansen, Edward J., EMNRD; Griswold, Jim, EMNRD
Cc: Dade, Randy, EMNRD; Bratcher, Mike, EMNRD
Subject: FW: Settlement Reached with Navajo Refining Following Worker Deaths
Attachments: PR102612 Environment Department Reaches Deal with Navajo Refining.docx

FYI

Glenn von Gonten

Senior Hydrologist
Environmental Bureau
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
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<http://www.emnrd.state.nm.us/ocd/>

From: Winchester, Jim, NMENV
Sent: Friday, October 26, 2012 9:18 AM
To: Winchester, Jim, NMENV
Subject: Settlement Reached with Navajo Refining Following Worker Deaths



STATE OF NEW MEXICO

Environment Department

SUSANA MARTINEZ, GOVERNOR

David Martin, *Cabinet Secretary*
Butch Tongate, *Deputy Secretary*

NEWS RELEASE

October 26, 2012

Contact: Jim Winchester
Communications Director
New Mexico Environment Department
(505)231-8800 / jim.winchester@state.nm.us

New Mexico Environment Department and Navajo Refining Reach Agreement on Safety Violations Following Worker Deaths

Santa Fe -- The New Mexico Environment Department and Navajo Refining of Artesia entered a settlement agreement for citations issued by the Department's Occupational Health and Safety Bureau, or New Mexico OSHA. The citations resulted from an investigation of a March 2010 accident, which killed two employees and seriously injured two others at the Artesia refinery. As part of the agreement, the company will pay a \$400,000 fine, the highest penalty ever collected by the state OSHA program.

"New Mexico OSHA is committed to ensuring safe workplaces for employees," said Butch Tongate, Deputy Secretary of the Environment Department. "We will continue working with employers within the oil, gas and refining industries to prevent these types of tragic accidents from endangering the lives of workers."

The accident occurred when employees of Northwest Insulation of Texas were performing welding operations on top of a storage tank at the refinery. The four victims, all Northwest employees, had just finished lunch on March 2, 2010. When the crew resumed work after the lunch break a welder ignited vapors from flammable liquids within the tank. The resulting explosion ripped open the top of the tank and the ensuing fire burned for more than an hour before being extinguished by the refinery's fire brigade. As a result of the settlement, Navajo Refining of Artesia does not admit fault, but does agree to settle to a \$400,000 fine.

"The hazards of welding on or near petroleum storage tanks, as well as methods for preventing associated accidents, are well known within the industry," said Robert Genoway, Acting Bureau Chief for New Mexico OSHA. "This type of hazard has resulted in far too many inexcusable accidents and deaths in New Mexico and nationwide."

New Mexico OSHA cited both Navajo Refining and Northwest Insulation for violations which included failing to properly inspect the work area prior to welding, failing to instruct employees on methods for determining the presence of flammables, and permitting the employees to weld in an area where flammable liquids and vapors were present. The state's case against Northwest was settled in January 2011. Both companies have provided documentation of actions taken to abate all violations and the refinery is subject a follow-up inspection to verify continued correction.

Under the New Mexico Occupational Health and Safety Act, employers are responsible for providing safe and healthful workplaces for their employees. New Mexico OSHA's role is to ensure these conditions for working men and women in the state by setting and enforcing standards, and providing training, education and assistance. For more information, visit [http:// www.nmenv.state.nm.us/Ohsb_Website/](http://www.nmenv.state.nm.us/Ohsb_Website/).

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Jim Winchester
Communications Director
New Mexico Environment Department &

State of New Mexico
Environment Department
Occupational Safety and Health Bureau
525 Camino de los Marquez
P. O. Box 5469
Santa Fe, NM 87502-5469
Phone: (505)476-8700 FAX: (505)476-8734



Citation and Notification of Penalty

To:
Northwest Insulation
and its successors
P. O. Box 3006
Odessa, TX 79760

Inspection Number: 314270364
Inspection Date(s): 03/03/2010 -
Issuance Date: 08/31/2010

Inspection Site:
501 East Main Street
Artesia, NM 88210

The violation(s) described in this Citation and Notification of Penalty is (are) alleged to have occurred on or about the day(s) the inspection was made unless otherwise indicated within the description given below.

This Citation and Notification of Penalty (this Citation) describes violations of the Occupational Safety and Health Act of 1970. The penalty(ies) listed herein is (are) based on these violations. You must abate the violations referred to in this Citation by the dates listed and pay the penalties proposed, unless within 15 working days (excluding weekends and Federal holidays) from your receipt of this Citation and Notification of Penalty you mail a notice of contest to the Environment Department, Occupational Health and Safety Bureau at the address shown above. Issuance of this Citation does not constitute a finding that a violation of the Act has occurred unless there is a failure to contest as provided for in the Act or, if contested, unless this Citation is affirmed by the Review Commission or a court.

Posting - The law requires that a copy of this Citation and Notification of Penalty be posted immediately in a prominent place at or near the location of the violation(s) cited herein, or, if it is not practicable because of the nature of the employer's operations, where it will be readily observable by all affected employees. This Citation must remain posted until the violation(s) cited herein has (have) been abated, or for 3 working days (excluding weekends and Federal holidays), whichever is longer. **The penalty dollar amounts need not be posted and may be marked out or covered up prior to posting.**

Informal Conference - An informal conference is not required. However, at the request of an employer, affected employee, or representative of employees, the Bureau Chief or the Bureau Chief's designee may hold an informal conference. At this conference any issues raised by an inspection, citation, proposed penalty, proposed petition for modification of abatement date or proposed petition for variance may be discussed. If you intend to request an informal conference, take care to schedule it early enough to allow time to contest after the informal conference discussion, should you decide to do so.

When the conference is requested by an employer, an affected employee or representative shall be afforded an opportunity to participate, at the discretion of the Bureau Chief or Bureau Chief's designee. When the conference is requested by an employee or representative of employees, the employer shall be afforded an opportunity to participate, at the discretion of the Bureau Chief or Bureau Chief's designee.

The request for an informal conference and the informal conference meeting shall not extend or modify in any manner:

- 1) an abatement date established in the citation;
- 2) the deadline for an employer to file a notice of contest;
- 3) any other filing deadline related to the citation; or
- 4) any matter pending before the bureau.

Once an employer files a notice of contest, a petition for modification of the abatement date, a request for a commission hearing, a petition for variance, or other filing with the Occupational Health and Safety Review Commission or the Environment Department, the opportunity for an informal conference is no longer available.

Right to Contest - You have the right to contest this Citation and Notification of Penalty. You may contest all citation items or only individual items. You may also contest proposed penalties and/or abatement dates without contesting the underlying violations. Unless you inform the Bureau Chief in writing that you intend to contest the citation(s) and/or proposed penalty(ies) within 15 working days after receipt, the citation(s) and the proposed penalty(ies) will become a final order of the Occupational Safety and Health Review Commission and may not be reviewed by any court or agency. It is recommended that the Notice of Contest be filed via "Certified Mail".

Penalty Payment - Penalties are due within 15 working days of receipt of this notification unless contested. Make your check or money order payable to the Environment Department, Occupational Health and Safety Bureau. Please indicate the Inspection Number on the remittance.

OSHA does not agree to any restrictions or conditions or endorsements put on any check or money order for less than the full amount due, and will cash the check or money order as if these restrictions, conditions, or endorsements do not exist.

Notification of Corrective Action - For violations which you do not contest, you should notify the Occupational Health and Safety Bureau (OHSB) that each cited violation has been abated. To certify abatement, you should complete the "Description of Corrective Action Taken" box which follows each citation and sign the statement on the last citation page. You are not required to certify abatement if the compliance officer observed that abatement has occurred during the on-site inspection. The citation may indicate that you should submit additional documentation such as photographs, purchase orders, copies of written programs, etc. Please return all completed forms and documents to the Program Manager no later than 10 days after the abatement date.

You are also required to inform your employees about abatement activities by **posting a copy of each document submitted to OHSB or a summary of the document near the place where the violation occurred. Documents must remain posted for 3 working days after submission to OHSB.**

Employer Discrimination Unlawful - The law prohibits discrimination by an employer against an employee for filing a complaint or for exercising any rights under this Act. An employee who believes that he/she has been discriminated against may file a complaint no later than 30 days after the discrimination occurred with the Environment Department, Occupational Health and Safety Bureau at the address shown above.

Notice to Employees - The law gives an employee or his/her representative the opportunity to object to any abatement date set for a violation if he/she believes the date to be unreasonable. The contest must be mailed to the Environment Department, Occupational Health and Safety Bureau at the address shown above and postmarked within 15 working days (excluding weekends and Federal holidays) of the receipt by the employer of this Citation and Notification of Penalty.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314270364
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210

Citation 1 Item 1 Type of Violation: **Serious**

11.5.3.9 NMAC

29 CFR 1926.20(b)(2): The employer did not initiate and maintain programs which provided for frequent and regular inspections of the job site, materials and equipment to be made by a competent person(s):

On or about March 2, 2010 Northwestern Insulation employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to ensure that inspections were conducted adequately and with sufficient frequency to detect the presence of an explosive/flammable atmosphere in and around Tank 82.

| |
|-----------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 4900.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314270364
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210

Citation 1 Item 2 Type of Violation: **Serious**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe conditions and the regulations applicable to his/her environment to control or eliminate any hazards or other exposure to illness or injury:

On or about March 2, 2010 Northwestern Insulation employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct employee #1 in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements when performing welding operations.

Date Corrected: _____

Describe Corrective Action:

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 4900.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314270364
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210

Citation 1 Item 3 Type of Violation: **Serious**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe condition(s) and the regulation(s) applicable to his work environment to control or eliminate any hazard(s) or other exposure to illness or injury:

On or about March 2, 2010 Northwestern Insulation employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct employee #2 in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements when performing welding operations.

| |
|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 4900.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314270364
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210

Citation 1 Item 4 Type of Violation: **Serious**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe condition(s) and the regulation(s) applicable to his work environment to control or eliminate any hazard(s) or other exposure to illness or injury:

On or about March 2, 2010 Northwestern Insulation employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct employee #3 in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements when performing welding operations.

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|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 4900.00

See pages 1 through 7 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314270364
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210

Citation 1 Item 5 Type of Violation: **Serious**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe condition(s) and the regulation(s) applicable to his work environment to control or eliminate any hazard(s) or other exposure to illness or injury:

On or about March 2, 2010 Northwestern Insulation employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct employee #4 in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements when performing welding operations.

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| Date Corrected: _____ |
| Describe Corrective Action: |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 4900.00

See pages 1 through 7 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314270364
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210

Citation 1 Item 6 Type of Violation: **Serious**

11.5.3.9 NMAC

29 CFR 1926.24: The employer had not developed and/or maintained an effective fire protection and prevention program at the job site through-out all phases of the construction, repair, alteration, or demolition work:

On or about March 2, 2010 Northwestern Insulation employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer did not develop a fire prevention program to include procedures for determining the presence and of flammable atmospheres during new tank construction within a refinery, where sources of ignition were to be present.

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| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 4900.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314270364
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210

Citation 1 Item 7 Type of Violation: **Serious**

11.5.3.9 NMAC

29 CFR 1926.352(c): Welding, cutting, or heating was done in the presence of flammable compounds and/or heavy dust concentrations creating a hazard:

On or about March 2, 2010 Northwestern Insulation employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to ensure that welding was not conducted in the presence of flammable or combustible liquids, including naptha, and vapors.

| |
|-----------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 4900.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314270364
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210

Citation 1 Item 8 Type of Violation: **Serious**

11.5.3.9 NMAC

29 CFR 1926.352(i): Drums containers, or hollow structures which contained toxic or flammable substances were not, before welding, cutting, or heating was undertaken on them, either filled with water or thoroughly cleaned of such substances and ventilated and tested:

On or about March 2, 2010 Northwestern Insulation employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to ensure that Tank 82 was filled with water to the exclusion of quantities of flammable substances sufficient to present explosion and fire danger, or to ensure that the tank was thoroughly cleaned, ventilated and tested prior to allowing employees to commence welding operations.

| |
|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

See pages 1 through 7 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314270364
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

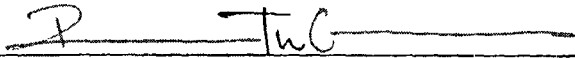
Citation and Notification of Penalty

Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210

I attest that all corrective actions contained in this document are accurate and affected employees have been informed of the abatement.

Signature: _____ Date: _____

Date By Which Violation Must be Abated: 10/03/2010
Proposed Penalty: \$ 4900.00



Robert Genoway
Program Manager

See pages 1 through 7 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

State of New Mexico
Environment Department
Occupational Safety and Health Administration
Occupational Safety & Health Bureau
P. O. Box 5469
Santa Fe, NM 87502-5469
Phone: (505)476-8700 FAX: (505)476-8734



INVOICE

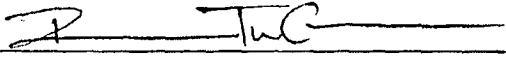
Company Name: Northwest Insulation
Inspection Site: 501 East Main Street, Artesia, NM 88210
Issuance Date: 08/31/2010

Summary of Penalties for Inspection Number 314270364

| | |
|---------------------------------|----------------------|
| Citation 1, Serious | = \$ 39200.00 |
| TOTAL PROPOSED PENALTIES | = \$ 39200.00 |

Please remit payment promptly to this office for the total amount of the uncontested penalties summarized above. Make your check or money order payable to: Environment Department, Occupational Health and Safety Bureau. Please indicate OHSB's Inspection Number (indicated above) on the remittance.

OHSB does not agree to any restrictions or conditions or endorsements put on any check or money order for less than full amount due, and will cash the check or money order as if these restrictions, conditions, or endorsements do not exist.


Robert Genoway, Program Manager

2010-08-31
Date

State of New Mexico
Environment Department
Occupational Safety and Health Bureau
525 Camino de los Marquez
P. O. Box 5469
Santa Fe, NM 87502-5469
Phone: (505)476-8700 FAX: (505)476-8734



Citation and Notification of Penalty

To:
Navajo Refining Company, LLC
and its successors
501 East Main Street
Artesia, NM 88211

Inspection Number: 314409129
Inspection Date(s): 03/03/2010 -
Issuance Date: 08/31/2010

Inspection Site:
501 East Main Street
Artesia, NM 88211

The violation(s) described in this Citation and Notification of Penalty is (are) alleged to have occurred on or about the day(s) the inspection was made unless otherwise indicated within the description given below.

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- 2) the deadline for an employer to file a notice of contest;
- 3) any other filing deadline related to the citation; or
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OSHA does not agree to any restrictions or conditions or endorsements put on any check or money order for less than the full amount due, and will cash the check or money order as if these restrictions, conditions, or endorsements do not exist.

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Notice to Employees - The law gives an employee or his/her representative the opportunity to object to any abatement date set for a violation if he/she believes the date to be unreasonable. The contest must be mailed to the Environment Department, Occupational Health and Safety Bureau at the address shown above and postmarked within 15 working days (excluding weekends and Federal holidays) of the receipt by the employer of this Citation and Notification of Penalty.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 1 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.20(b)(2): The employer did not initiate and maintain programs which provided for frequent and regular inspections of the job site, materials, and equipment to be made by competent persons designated by the employers.

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

1. The employer failed to ensure that materials, which included flammable or combustible liquids, transferred into Tank 82 were inspected to prevent the accumulation of such materials in sufficient quantities in new tanks as to present fire and explosion hazards.
2. The employer failed to ensure that inspections were conducted adequately and with sufficient frequency to detect the presence of an explosive/flammable atmosphere in and around Tank 82.

Date Corrected: _____

Describe Corrective Action:

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 70000.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 2 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe condition(s) and the regulation(s) applicable to his work environment to control or eliminate any hazard(s) or other exposure to illness or injury:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct or ensure that personnel responsible for authorizing welding operations performed by contractors were instructed in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements for welding operations.

| |
|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 70000.00

See pages 1 through 7 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 3 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe condition(s) and the regulation(s) applicable to his work environment to control or eliminate any hazard(s) or other exposure to illness or injury:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct or ensure that personnel responsible for inspecting an area prior to welding operations performed by contractors were instructed in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements for welding operations.

| |
|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 70000.00

See pages 1 through 7 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 4 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe condition(s) and the regulation(s) applicable to his work environment to control or eliminate any hazard(s) or other exposure to illness or injury:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct or ensure that Northwestern Insulation employee #1 was instructed in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements when performing welding operations.

| |
|-----------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 70000.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 5 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe condition(s) and the regulation(s) applicable to his work environment to control or eliminate any hazard(s) or other exposure to illness or injury:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct or ensure that Northwestern Insulation employee #2 was instructed in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements when performing welding operations.

| |
|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 70000.00

See pages 1 through 7 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 6 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe condition(s) and the regulation(s) applicable to his work environment to control or eliminate any hazard(s) or other exposure to illness or injury:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct or ensure that Northwestern Insulation employee #3 was instructed in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements when performing welding operations.

| |
|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated: 10/03/2010
Proposed Penalty: \$ 70000.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 7 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.21(b)(2): The employer did not instruct each employee in the recognition and avoidance of unsafe condition(s) and the regulation(s) applicable to his work environment to control or eliminate any hazard(s) or other exposure to illness or injury:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to instruct or ensure that Northwestern Insulation employee #4 was instructed in appropriate methods for determining the presence of explosive, flammable and combustible materials or atmospheres and in the associated safety and fire prevention requirements when performing welding operations.

| |
|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 70000.00

See pages 1 through 7 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 8 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.24: The employer had not developed and/or maintained an effective fire protection and prevention program at the job site throughout all phases of the construction, repair, alteration, or demolition work:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer's fire prevention program did not include procedures for identifying the movement and location of flammable and combustible materials, including naphtha, prior to new tank construction and for determining the presence of flammable atmospheres during new tank construction where sources of ignition were to be present.

| |
|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 70000.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 9 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.352(c): Welding, cutting, or heating was done in the presence of flammable compounds an/or heavy dust concentrations creating a hazard:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to ensure that welding was not conducted in the presence of flammable or combustible liquids, including naphtha, and vapors.

| |
|-----------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: _____ |

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 70000.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 1 Item 10 Type of Violation: **Willful**

11.5.3.9 NMAC

29 CFR 1926.352(i): Drums, containers, or hollow structures which contained toxic or flammable substances were not, before welding, cutting, or heating was undertaken on them, either filled with water or thoroughly cleaned of such substances and ventilated and tested:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to ensure that Tank 82 was filled with water to the exclusion of quantities of flammable substances sufficient to present explosion and fire danger, or thoroughly cleaned of flammable substances, ventilated and tested prior to authorizing commencement of welding operations.

Date Corrected: _____

Describe Corrective Action:

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 70000.00

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

Citation 2 Item 1 Type of Violation: **Serious**

11.5.3.9 NMAC

29 CFR 1926.21(b)(5): Employee(s) required to handle or use flammable liquids, gases, or toxic materials were not instructed in the safe handling and use of these materials and made aware of the specific requirements contained in 29 CFR 1926, subparts D, F, and other applicable subparts:

On or about March 2, 2010, employees were exposed to hazards associated with conducting welding operations on Tank 82 in the presence of combustible or flammable liquids and flammable vapors, including fire and explosions.

The employer failed to ensure that employees were instructed in appropriate methods for transferring liquids between used and new storage tanks to ensure that flammable and combustible materials were not transferred in sufficient quantities as to create explosion and fire hazards during planned welding operations. Employees performing liquid transfer were not informed of requirements for fire control and prevention related to the transfer of such liquids to new tanks.

| |
|---------------------------------------------------------------------|
| Date Corrected: _____ |
| Describe Corrective Action: |

See pages 1 through ? of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT
Occupational Health and Safety Bureau

Inspection Number: 314409129
Inspection Dates: 03/03/2010 -
Issuance Date: 08/31/2010



525 Camino de los Marquez
P. O. Box 5469
Santa Fe, New Mexico 87502-5469

Citation and Notification of Penalty

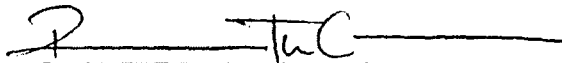
Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211

I attest that all corrective actions contained in this document are accurate and affected employees have been informed of the abatement.

Signature: _____ Date: _____

Date By Which Violation Must be Abated:
Proposed Penalty:

10/03/2010
\$ 7000.00



Robert Genoway
Program Manager

See pages 1 through 7 of this Citation and Notification of Penalty for information on employer and employee rights and responsibilities.

State of New Mexico
Environment Department
Occupational Safety and Health Administration
Occupational Safety & Health Bureau
P. O. Box 5469
Santa Fe, NM 87502-5469
Phone: (505)476-8700 FAX: (505)476-8734



INVOICE

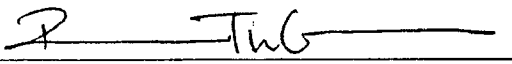
Company Name: Navajo Refining Company, LLC
Inspection Site: 501 East Main Street, Artesia, NM 88211
Issuance Date: 08/31/2010

Summary of Penalties for Inspection Number 314409129

| | |
|---------------------------------|-----------------------|
| Citation 1, Willful | = \$ 700000.00 |
| Citation 2, Serious | = \$ 7000.00 |
| TOTAL PROPOSED PENALTIES | = \$ 707000.00 |

Please remit payment promptly to this office for the total amount of the uncontested penalties summarized above. Make your check or money order payable to: Environment Department, Occupational Health and Safety Bureau. Please indicate OHSB's Inspection Number (indicated above) on the remittance.

OHSB does not agree to any restrictions or conditions or endorsements put on any check or money order for less than full amount due, and will cash the check or money order as if these restrictions, conditions, or endorsements do not exist.


Robert Genoway, Program Manager

2010-08-31
Date

Artesia refinery fined \$707,000 for safety lapses associated with deadly blast

By Bryant Furlow 9/17/10 11:48 AM [DIGG](#) [TWEET](#)



Navajo refinery. Photo by Glemby

The Navajo Refining Company has been fined \$707,000 for after state investigators found the company knowingly failed to correct safety problems before a deadly March 2 storage tank explosion and fire at the company's plant in Artesia, N.M.

Two workers, Natividad Andajo and Victor Villa, were killed in the blast, their bodies were burned beyond recognition. Two other workers, both critically-injured, were airlifted to a hospital in Lubbock, Texas.

The plant processes crude oil into gasoline, diesel fuel and jet fuel.

The state Occupational Safety and Health Bureau has issued citations for one "serious" violation and 10 "willful" violations — the most serious category of infraction. Violations included the company's failure to train employees to recognize explosive hazards, failing to maintain fire prevention and fire protection programs, and allowing workers to conduct welding operations in the presence of flammable vapors.

"Serious" workplace safety violations are those representing hazards or conditions with a "substantial probability that death or serious physical harm could result," Bureau records show.

"Willful" violations are even more serious, representing situations in which the employer knows a hazardous situation exists but makes a knowing, intentional decision not to correct it.

Bureau investigators had issued a total of 10 previous serious safety violation citations against the Navajo Refinery over the three years leading up to the March 2010 storage tank explosion, The Independent reported July 14. Those previous violations included a failure to maintain adequate fireproofing on support beams, missing guard rails, missing danger signs, missing electrical safety equipment and improperly maintained worker respirator equipment.

The Navajo Refinery explosion in March was just one of a string of refinery blasts and fires that have killed dozens of workers over recent years. New Mexico also has the nation's deadliest

natural gas pipeline safety record. U.S. Senators Barbara Boxer and Dianne Feinstein have announced they will soon introduce national pipeline safety legislation, in the aftermath of the massive San Bruno, Calif., pipeline blast last week.

The Navajo refinery reported a hydrogen sulfide leak Sept. 8. In 2009, the Bureau cited the refinery after finding employees had been exposed to hydrogen sulfide fumes at concentrations exceeding the federal occupational safety regulation limit of 50 parts per million. One worker was exposed to 662 parts per million — more than 13 times higher than federal safety regulations permit — without adequate personal protection equipment, inspectors found. Even brief exposures involving inhalation of hydrogen sulfide at concentrations above 500 parts per million can kill and cause permanent brain damage, according to the U.S. Agency for Toxic Substances and Disease Registry (ATSDR).

The Holly Corporation-owned Navajo Refinery is composed of two separate plants: one in Artesia and another 65 miles to the east, in Lovington. The two plants are considered a single refinery because they transfer petroleum products by pipeline and both plants contribute to the same refinery process, Occupational Safety and Health Bureau chief Butch Tongate said.

Artesia refinery cited for safety violations before deadly explosion

By Bryant Furlow 7/14/10 10:28 AM



Navajo refinery. Photo by Glemby

Artesia Fire Chief J.D. Hummingbird heard the explosion at the Navajo Refinery just before 1 p.m. March 2. He stepped outside to see a large, black plume of smoke rising from the facility, which sits at the intersection of two busy highways less than a mile from the fire station. Firefighters arrived to find a storage tank, where contractors had been welding, engulfed in flames.

Two of the workers, Natividad Andajo and Victor Villa, were dead. Their bodies were burned beyond recognition.

Two other workers, both critically-injured, were airlifted to a hospital in Lubbock, Texas. One of them, Juan Carlos Hermosillo, 24, suffered broken arms, broken hips and fractured vertebrae. The refinery's Dallas, Texas-based parent company, Holly Corporation, immediately issued a press release confirming at least one fatality.

The New Mexico Occupational Health and Safety Bureau is investigating the explosion, Bureau chief Butch Tongate told The Independent earlier this week.

The exact cause of the explosion is not yet clear, but the investigation comes at a time of increasing concern about safety problems at refineries nationwide. Hermosillo, who filed a lawsuit from his hospital bed in March, claims in court records that safety inspections were not conducted before welding began the day of the explosion.

"The fire was tragic and the cause is still under investigation," refinery attorney Joel Carson told The Independent in an e-mail.

Four lawsuits have been filed against the refinery, Carson said: two by the dead workers' families and two by the injured workers. The company conducted internal safety reviews but cannot comment on those because of those pending lawsuits, Carson wrote.

Ten 'serious' safety violations in three years

Bureau inspection records obtained by The Independent show a series of serious safety lapses at the Navajo Refinery between 2007 and 2009. A total of three Bureau inspections — a comprehensive, four-day-long inspection in December 2007 and two single-day inspections in November 2008 and October 2009 — identified a total of 11 occupational safety violations at the Navajo Refinery, Bureau records show.

All but one of the violations were deemed “serious,” meaning they represented a hazard or condition with a “substantial probability that death or serious physical harm could result,” Bureau records show.

None of the violations involved storage tanks and the company remedied the identified problems within months of being cited, Bureau records confirm.

Nine of the 11 violations were identified during the comprehensive 2007 inspection. That inspection was part of a nationwide effort coordinated by the U.S. Occupational Safety and Health Administration (OSHA), Navajo Refining Company President David Lamp told The Independent in an e-mail.

“We always conduct our business with high regard for the health and safety of our employees, contractors, and neighboring communities,” Lamp wrote. “The items identified in this investigation carried penalties of approximately \$1,000 to \$2,000 for each item, plus a requirement to take corrective action for each noted deficiency. Navajo paid total fines of approximately \$15,000, corrected the majority of the items in the month the report was issued, with all items corrected within three months of the report.”

The facility is actually composed of two separate plants: one in Artesia and another 65 miles to the east, in Lovington. The two plants are considered a single refinery because they transfer petroleum products by pipeline and both plants contribute to the same refinery process, Tongate said.

The 2007 inspection identified nine violations, eight of them serious, ranging from damaged fire-proof coating on facility support beams and missing guard rails, to missing danger signs, missing electrical safety equipment and improperly maintained respiration equipment. Padlocks that ensure electrical equipment is turned off before repairs are attempted, were not properly installed, inspectors found in 2007. Two years later, during the November 2009 inspection, inspectors discovered lax lockout procedures, including the substitution of padlocks with plastic zip ties.

“That’s a situation where there’s a piece of machinery where they are required to de-energize ... in case somebody accidentally turns it on while somebody’s inside,” Tongate explained. Other serious safety violations at both plants involved inadequate fireproofing. Fireproofing was cracked at damaged on a column in the Artesia plant, inspectors found in 2007. Fireproofing was an even more serious issue at the Lovington plant.

“Fire proofing on several columns throughout the (Lovington) plant was damaged,” a June 2, 2008 Bureau violation letter states.

The safety violations identified in the 2007 inspection were corrected in summer 2008, within months of the company's receipt of Bureau citation letters, Lamp wrote in an e-mail.

"Safety is our number one priority and we take all safety matters seriously," Lamp wrote.

But in 2009, state inspectors found that employees had been exposed to hydrogen sulfide fumes at concentrations exceeding the federal occupational safety regulation limit of 50 parts per million. One worker was exposed to 662 parts per million — more than 13 times higher than federal safety regulations permit — without adequate personal protection equipment, inspectors found.

Even brief exposures involving inhalation of hydrogen sulfide at concentrations above 500 parts per million can kill and cause permanent brain damage, according to the U.S. Agency for Toxic Substances and Disease Registry (ATSDR).

The Navajo Refinery, in New Mexico's southeastern plains, is the larger of state's two active petroleum refineries. It processes between 80,000 and 100,000 barrels per day of crude oil, producing gasoline, diesel, jet fuel and butane, according to the Holly website. company earnings reports and the U.S. Energy Information Administration.

Another explosion at the Artesia plant, caused by a butane gas leak, injured 17 workers nearly 30 years ago, in May 1981.

Holly Corporation owns two other refineries, in Tulsa, Oklahoma and Woods Cross, Utah.



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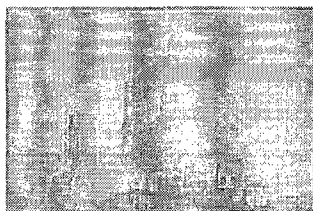
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Artesia refinery cited for safety violations before deadly explosion

By Bryant Furlow 7/14/10 10:28 AM

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Navajo refinery. Photo by Glemby

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The 2007 inspection identified nine violations, eight of them serious, ranging from damaged fire-proof coating on facility support beams and missing guard rails, to missing danger signs, missing electrical safety equipment and improperly maintained respiration equipment.

Padlocks that ensure electrical equipment is turned off before repairs are attempted, were not properly installed, inspectors found in 2007. Two years later, during the November 2009 inspection, inspectors discovered lax lockout procedures, including the substitution of padlocks with plastic zip ties.

“That’s a situation where there’s a piece of machinery where they are required to de-energize ... in case somebody accidentally turns it on while somebody’s inside,” Tongate explained.

Other serious safety violations at both plants involved inadequate fireproofing. Fireproofing was cracked at damaged on a column in the Artesia plant, inspectors found in 2007.

Fireproofing was an even more serious issue at the Lovington plant.

“Fire proofing on several columns throughout the (Lovington) plant was damaged,” a June 2, 2008 Bureau violation letter states.

The safety violations identified in the 2007 inspection were corrected in summer 2008, within months of the company’s receipt of Bureau citation letters, Lamp wrote in an e-mail.

“Safety is our number one priority and we take all safety matters seriously,” Lamp wrote.

But in 2009, state inspectors found that employees had been exposed to hydrogen sulfide fumes at concentrations exceeding the federal occupational safety regulation limit of 50 parts per million. One worker was exposed to 662 parts per million — more than 13 times higher than federal safety regulations permit — without adequate personal protection equipment, inspectors found.


Even brief exposures involving inhalation of hydrogen sulfide at concentrations above 500 parts per million can kill and cause permanent brain damage, according to the U.S. Agency for Toxic Substances and Disease Registry (ATSDR).


The Navajo Refinery, in New Mexico’s southeastern plains, is the larger of state’s two active petroleum refineries. It processes between 80,000 and 100,000 barrels per day of crude oil, producing gasoline, diesel, jet fuel and butane, according to the Holly website, company earnings reports and the U.S. Energy Information Administration.


Another explosion at the Artesia plant, caused by a butane gas leak, injured 17 workers nearly 30 years ago, in May 1981.

Holly Corporation owns two other refineries, in Tulsa, Oklahoma and Woods Cross, Utah.

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Chavez, Carl J, EMNRD

From: Tongate, Butch, NMENV
Sent: Thursday, April 15, 2010 6:31 PM
To: Chavez, Carl J, EMNRD; Vail, Scott, NMENV; Davis, Jim, NMENV; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV; VonGonten, Glenn, EMNRD; Sanchez, Daniel J., EMNRD; Martin, Calvin, NMENV; Reuter, Stephen, NMENV; Bearzi, James, NMENV
Cc: Genoway, Robert, NMENV; Hernandez, Herman, NMENV
Subject: RE: OSHA MOU Meeting- Fires & Explosions Sharing of Information w/ OSHA and/or between Agencies Communication Meeting

At our meeting two weeks ago to discuss agency responsibilities and potential ways to assist each other, I was asked to send a communiqué regarding information that could be useful to NM OSHA.

NM OSHA's mission is to provide every employee under our jurisdiction a safe and healthful place of employment. Essentially, we take proactive and reactive measures to address workplace health and safety hazards. One method we employ is to investigate or inspect complaints and referrals we receive from employees, subcontractors, safety professionals, members of the general public, or other government agency employees. Referrals and complaints are very similar in that they basically allege the existence of a violation of safety and/or health standards in a specific workplace. The only difference is that a complaint can only be initiated by an existing employee of the establishment and it must be signed by the employee. In either case, the person making the allegation can choose to have his or her identity remain confidential.

The nature of hazards reported to NM OSHA varies widely based on the type of industry involved. Naturally, allegations of an "imminent danger" to employees will receive immediate attention, whereas hazards that are serious, but less of an immediate threat, may not be immediately inspected. All referrals are taken seriously, but since most people are unfamiliar with most OSHA standards, we sometimes get referrals for conditions that are not violations. If a particular condition of concern exists, but it does not present a hazard to employees at the establishment or worksite, we cannot cite the employer.

In the case of refineries and gas plants, we are obviously interested in any condition that could lead to a catastrophic fire or explosion. We are also interested in "near misses" or "close calls", since such incidents could be indicative of a procedural or mechanical problem. Some other conditions that are considered to be serious hazards that must be controlled by the employer are:

1. Fall protection – in general industry, workers working at heights more than 4 feet above the ground or a lower platform must be protected by guardrails or other types of fall protection.
2. Confined spaces – hazards include toxic atmospheres, falls, cave-ins, and moving parts that present "crushed by" hazards. Employees are not prohibited from entering confined spaces as long as they follow appropriate OSHA standards in doing so.
3. Excavations/trenches – Protective measures are required for work in most trenches and excavations, depending on depth and soil type.
4. Electrical hazards – Working near power lines or on or near equipment with electrical faults or without proper safeguards.
5. Lockout/Tagout – Working in or on equipment that could become energized or release stored energy that could injure a worker unless the apparatus is properly locked out.
6. Machine guarding issues – Machinery or tools that present crushing, "struck by", amputation, fire, explosion, or inhalation hazards must be fitted with protective guards.

These are just a few of hundreds of potential hazards that could be encountered in New Mexico workplaces. More detailed information on these and other types of potential hazards can be found by going to www.osha.gov . Type in a key word or phrase (e.g., "explosive atmosphere") and pertinent links will be

displayed. If staff members in your agency observe situations that appear to present a serious health or safety hazard, they should report it to the appropriate management representative at the facility. If it is not satisfactorily addressed, it should be reported to NM OSHA.

We receive referrals in person or via telephone, fax, or email. At a minimum, we need to know the physical address or specific location of the worksite where the hazard was observed and the nature of the hazard. Obviously, additional information is desirable if it is available, e.g., name, address, and phone number of the employer, how many employees were exposed to the hazard, etc. The attached worksheet shows the information that is recorded if it is available.

If you or any of your staff wish to submit a referral, it should be provided by one of the following methods:

1. By fax to: Bob Genoway, NM OSHA Compliance Manager, at 505-476-8734;
2. By phone to: 505-476-8700 – Tell whoever answers that you wish to make a referral to a compliance officer and your call will be forwarded to the appropriate person for handling;
3. By email to: robert.genoway@state.nm.us ; AND TO herman.hernandez@state.nm.us (in the event one or the other is out of the office).

If you have questions on this topic, please call Bob Genoway at 476-8718 or Herman Hernandez at 476-8711.

Thanks for your assistance.

Butch

Butch Tongate

Chief, Occupational Health and Safety Bureau

New Mexico Environment Department

Office: 505-476-8787 Fax: 505-476-8734

butch.tongate@state.nm.us



Referral
Worksheet.pdf

**STATE OF NEW MEXICO
OCCUPATIONAL HEALTH & SAFETY BUREAU
COMPLAINT/REFERRAL
PHONE/FAX/E-MAIL WORKSHEET**

| | | | | | |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|----------------------------------------------------|--|
| Person Receiving Complaint/Referral | | Date Received | | Time Received | |
| | | | | | |
| Employee | <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Ex Employee <input type="radio"/> Other | | | | |
| Confidential Complaint | <input type="radio"/> Yes <input type="radio"/> No | | | | |
| Employer Information | | | | | |
| Establishment Name | | | | | |
| Establishment Address | | | | | |
| Site Address | | | | | |
| Phone # | | | Fax | | |
| E-Mail Address | | | | | |
| Management Official | | | | | |
| How Many Employees in the Establishment? | | | | How Many employees exposed? | |
| | | | | | |
| Union Shop | <input type="radio"/> Yes <input type="radio"/> No | | | | |
| Local Union Name | | | | Local # | |
| Union Rep Name | | | | Phone # | |
| Employee/Person Making Complaint/Referral | | | | | |
| Name | | | | | |
| Address | | | | | |
| Phone # | | | E-Mail Address | | |
| Job Title or Job Description: | | | | | |
| How long with Employer | | | | | |
| Nature of Complaint/Referral (Both Safety & Health) | | | | | |
| | | | | | |
| Employer Notified? | <input type="radio"/> Yes <input type="radio"/> No | | Near Misses? | <input type="radio"/> Yes <input type="radio"/> No | |
| Is personal Protective Equipment Available? | <input type="radio"/> Yes <input type="radio"/> No | | | | |

Chavez, Carl J, EMNRD

Subject: OSHA MOU Meeting- Fires & Explosions Sharing of Information w/ OSHA and/or between Agencies Communication Meeting
Location: 1301 Siler Road Building B, Santa Fe NM, 87507
Start: Thu 4/1/2010 10:30 AM
End: Thu 4/1/2010 12:00 PM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Organizer: Chavez, Carl J, EMNRD
Required Attendees: Tongate, Butch, NMENV; Vail, Scott, NMENV; Davis, Jim, NMENV; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV; VonGonten, Glenn, EMNRD; Chavez, Carl J, EMNRD; Sanchez, Daniel J., EMNRD

Ladies and Gentlemen:

Based on the recent explosion and loss of life at the Artesia Refinery, and "Who Does What?" when fires and explosions occur at facilities and especially where there are reoccurring situations regardless of injuries, OSHA would like to meet with State agencies to discuss a possible MOU for sharing these types of reports with OSHA.

Other possible stakeholders to invite could include: PRC, State Fire Marshal and State Police should be included?

Meeting Agenda:

- 1) Communication
- 2) Who Does What or has authority for what?
- 3) Possible MOU Development or "Secretary Order" to share certain types of re-occurring incidents information with OSHA.
- 4) What type of incidents?
- 5) Communication between OSHA and Agencies.
- 6) Miscellaneous

NMED- Air Quality Bureau

Scott Vail
Compliance Manager, Compliance Inspections
1301 Siler Road Building B
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Tel. 505-476-4357
e-mail: Scott.Vail@state.nm.us

NMED- Hazardous Waste Bureau

David Cobrain
Environmental Specialist
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REFINING COMPANY, LLC

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(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX

(505) 746-5419 ACCOUNTING
(505) 746-5451 ENV/PURCH/MKTG
(505) 746-5421 ENGINEERING

May 19, 2008

Herman Hernandez
NM OSHA
525 Camino de los Marquez, Suite 3
PO Box 26110
Santa Fe, NM 87502

Mr. Hernandez:

During the NEP meeting on April 25, 2008 between NM OHSA officials and Navajo Refining Company representatives, several preliminary citations were discussed. As a result of this meeting, Navajo took measures to promptly correct most of the findings and the remaining items are currently in progress. A list of the preliminary citations and corrective actions made to date, have been included with this transmittal for your review.

If you have any questions, please feel free to contact me.

Thank you for your consideration in this matter.

Sincerely,

Jenifer Hilliard
Sr. PSM Engineer

Attachments

NRC personnel met with NEP OSHA officials on April 25, 2008, at 9:00 a.m. for a presentation of the preliminary NEP citations. The following preliminary citations were discussed:

Lovington:

1. Unit 86, Lovington Utilities – Cover plate missing on junction box
Item resolved. Cover plate was installed on junction box. See photo Lov-1 (1261).
2. Unit 86, Lovington Utilities – Missing plug on electrical conduit in alley way
Item resolved. Plug was replaced on electrical conduit 04/24/08. See photo Lov-2 (1199).
3. Column 37 – Light fixture hanging by wire in alley way
Item resolved. Light fixture was repaired 04/24/08. See photo Lov-3 (1198).
4. Missing globes (2) on light fixtures
Items resolved. Globes were replaced on light fixtures 04/25/08. See photos Lov-4.1, 4.2, 4.3 (1229, 1230, 1235).
5. No confined space labeling on vessel skirts
Items resolved. All vessel skirts have been labeled "Danger Confined Space Enter By Permit Only." See photos Lov-5.1, 5.2, 5.3 (1232, 1233, 1234).
NOTE: Only these three vessels were pointed out during the inspection.
6. Various locations – Damaged fire proofing, missing, or repair required
Item resolved. An independent professional engineer completed a survey of foundations; no immediate mechanical integrity condition exists (report attached Lov-6.1). Plans have been made to complete the recommended repairs this summer (see attachment Lov-6.2).
7. H₂S Monitors – Employee did not know how to calibrate instrument
Item resolved. All refinery employees received refresher training on H₂S monitors 04/29/08. Copy of training sign-off sheet included. See attachment Lov-7.

Artesia:

1. Lab #2 Tester Room – Labeling missing on breaker panel box
Item resolved. The breaker panel box was labeled 04/25/08. See photos Art 1-1.1 and 1.2 (April 23 003, April 25 009).
2. Lab Chemist Room – Knockouts missing from electrical outlet boxes in (2) locations
Items resolved. Knockouts were replaced in two electrical outlet boxes on 04/25/08. See photos Art-2.1, 2.2, 2.3, 2.4 (April 23 004, April 25 007, April 23 005, April 25 008).
3. Lab – Inadequate number/size of respirators for employee usage
Item resolved. The respirator storage cabinet has been stocked with respirators in various sizes (small, medium, large). See photos Art-3.1, 3.2, 3.3., 3.4 (April 29 018, April 29 017, April 29 016, April 29 015).
4. Lab – Fire extinguisher visibility issue


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- Item resolved. Fire extinguisher signs were placed on the wall above all fire extinguishers in the Lab on 04/29/08. See photos Art-4.1, 4.2, 4.3 (April 29 010, April 29 011, April 29 014).
5. Lab – Inadequate locations for disposal of sharps
Item resolved. Signs were posted above the two sharp container locations in the Lab on 04/29/08. See photos Art-5.1, 5.2 (April 29 013, April 29 012).
 6. South Division – Globe missing on perimeter lighting
Item resolved. Globe replaced on perimeter light (see photo Art-6 (May 12 003)).
 7. FCC Process Blower Platform – Section of top rail missing
Item resolved. The section of railing on the FCC process blower platform was replaced on 04/25/08. See photos Art-7.1, 7.2 (April 24 004, April 25 006).
 8. FCC Air Line – Flat cap not bolted to valve
Item resolved. The flat cap on the FCC air line was bolted onto the valve on 04/24/08. See photos Art-8.1, 8.2 (April 24 001, April 25 001)
 9. FCC P-959, Debutanizer Charge Pump, Discharge Valve LOTO – Defective lock and slack in chain, tag not filled out.
Item resolution in progress. See photos Art-9.1, 9.2, 9.3 (April 24 005, April 24 006, April 24 007). The pump was repaired and returned to service before photos could be taken of the LOTO correction. Maintenance Groups have inspected and tested all their locks (see attached sheets, Art-9.4). No other defective equipment was found. The Operations Department is in the process of conducting refresher training on the LOTO procedure for all employees (see attached sheets, Art-9.5).
 10. FCC SCBA #3 – SCBA not inspected for the month of February
Item resolved. One operator has now been assigned to perform monthly inspection of SCBAs. We feel like this is an isolated case since the other two SCBAs were inspected and annotated for February. SCBA inspections have been performed for April and May and annotated on the tag. See photo Art-10 (May 12 001).
 11. FCC SCBA #3 – Dust cover missing from SCBA mask
Item resolved. The dust cover was replaced on SCBA #3 at the FCC on 04/24/08. See photos Art-11.1, 11.2 (April 25 002, April 25 003).

Contractor (Interstate Treating):

- SRU Construction Site – Ground pin removed from extension cord
- SRU Construction Site Tool Shed – Missing cover plates on breaker box
- SRU Construction Site Tool Shed – Frayed cord on welding rod heater box
- SRU Construction Site – Rebar caps missing on (2) stakes

NOTE: Contractor citations will be issued separately.

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PROJECT: NATIONAL EMPHASIS PROGRAM (NEP) INSPECTION
TRANSMITTAL #: NEP-014
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DATE OF TRANSMITTAL: 05/20/08
RESPONSE TO: Preliminary Citations

| DOCUMENT REFERENCE NUMBER | TITLE/DESCRIPTION | # OF PAGES | # OF COPIES |
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| NEP Ltr 007 | 05/19/08 Letter to Herman Hernandez - Preliminary Citations | 1 | 1 |
| | Preliminary Citations | 2 | 1 |
| Lov-1 | 05/12/08 10:47 Photo of Cover Plate (Corrected) | 1 | 1 |
| Lov-2 | 04/24/08 16:42 Photo of Electrical Conduit Plug (Corrected) | 1 | 1 |
| Lov-3 | 04/24/08 16:42 Photo of Light Fixture (Corrected) | 1 | 1 |
| Lov-4.1 | 04/25/08 07:28 Photo of Missing Globe (Before) | 1 | 1 |
| Lov-4.2 | 04/25/08 08:12 Photo of Missing Globe (Corrected) | 1 | 1 |
| Lov-4.3 | 04/30/08 08:13 Photo of Missing Globe (Corrected) | 1 | 1 |
| Lov-5.1 | 04/30/08 08:09 Photo of Vessel Skirt Confined Space Entry (Corrected) | 1 | 1 |
| Lov-5.2 | 04/30/08 08:09 Photo of Vessel Skirt Confined Space Entry (Corrected) | 1 | 1 |
| Lov-5.3 | 04/30/08 08:09 Photo of Vessel Skirt Confined Space Entry (Corrected) | 1 | 1 |
| Lov-6.1 | 05/06/08 Saulsbury Engineering & Construction Letter - Foundation Weathering | 2 | 1 |
| Lov-6.2 | 05/06/08 JER Memo | 1 | 1 |
| Lov-7 | 04/29/08 Bump Test of Gas Pro H2S Monitors - Refresher Training Record | 1 | 1 |
| Art-1.1 | 04/23/08 Photo Missing Labeling on Breaker Panel Box (Before) | 1 | 1 |
| Art-1.2 | 04/25/08 Photo Missing Labeling on Breaker Panel Box (Corrected) | 1 | 1 |
| Art-2.1 | 04/23/08 Photo Electrical Outlet Box Missing Knockout (Before) | 1 | 1 |
| Art-2.2 | 04/25/08 Photo Electrical Outlet Box Missing Knockout (Corrected) | 1 | 1 |
| Art-2.3 | 04/23/08 Photo Electrical Outlet Box Missing Knockout (Before) | 1 | 1 |
| Art-2.4 | 04/25/08 Photo Electrical Outlet Box Missing Knockout (Corrected) | 1 | 1 |
| Art-3.1 | 04/29/08 Photo Respirator Storage Cabinet - Small (Corrected) | 1 | 1 |
| Art-3.2 | 04/29/08 Photo Respirator Storage Cabinet - Medium (Corrected) | 1 | 1 |
| Art-3.3 | 04/29/08 Photo Respirator Storage Cabinet - Large (Corrected) | 1 | 1 |
| Art-3.4 | 04/29/08 Photo Respirator Storage Cabinet (Corrected) | 1 | 1 |
| Art-4.1 | 04/29/08 Photo Fire Extinguisher Sign (Corrected) | 1 | 1 |
| Art-4.2 | 04/29/08 Photo Fire Extinguisher Sign (Corrected) | 1 | 1 |
| Art-4.3 | 04/29/08 Photo Fire Extinguisher Sign (Corrected) | 1 | 1 |
| Art-5.1 | 04/29/08 Photo Sharp Disposal Location (Corrected) | 1 | 1 |
| Art-5.2 | 04/29/08 Photo Sharp Disposal Location (Corrected) | 1 | 1 |
| Art-6 | 05/12/08 Photo Missing Globe on Perimeter Fencing Light (Corrected) | 1 | 1 |
| Art-7.1 | 04/24/08 Photo FCC Process Blower Missing Top Rail (Before) | 1 | 1 |
| Art-7.2 | 04/25/08 Photo FCC Process Blower Missing Top Rail (Corrected) | 1 | 1 |

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Jennifer Hilliard
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Sr. PSM Engineer

05/20/08

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| Art-2.3 | 04/23/08 Photo Electrical Outlet Box Missing Knockout (Before) | 1 | 1 |
| Art-2.4 | 04/25/08 Photo Electrical Outlet Box Missing Knockout (Corrected) | 1 | 1 |
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| Art-3.2 | 04/29/08 Photo Respirator Storage Cabinet - Medium (Corrected) | 1 | 1 |
| Art-3.3 | 04/29/08 Photo Respirator Storage Cabinet - Large (Corrected) | 1 | 1 |
| Art-3.4 | 04/29/08 Photo Respirator Storage Cabinet (Corrected) | 1 | 1 |
| Art-4.1 | 04/29/08 Photo Fire Extinguisher Sign (Corrected) | 1 | 1 |
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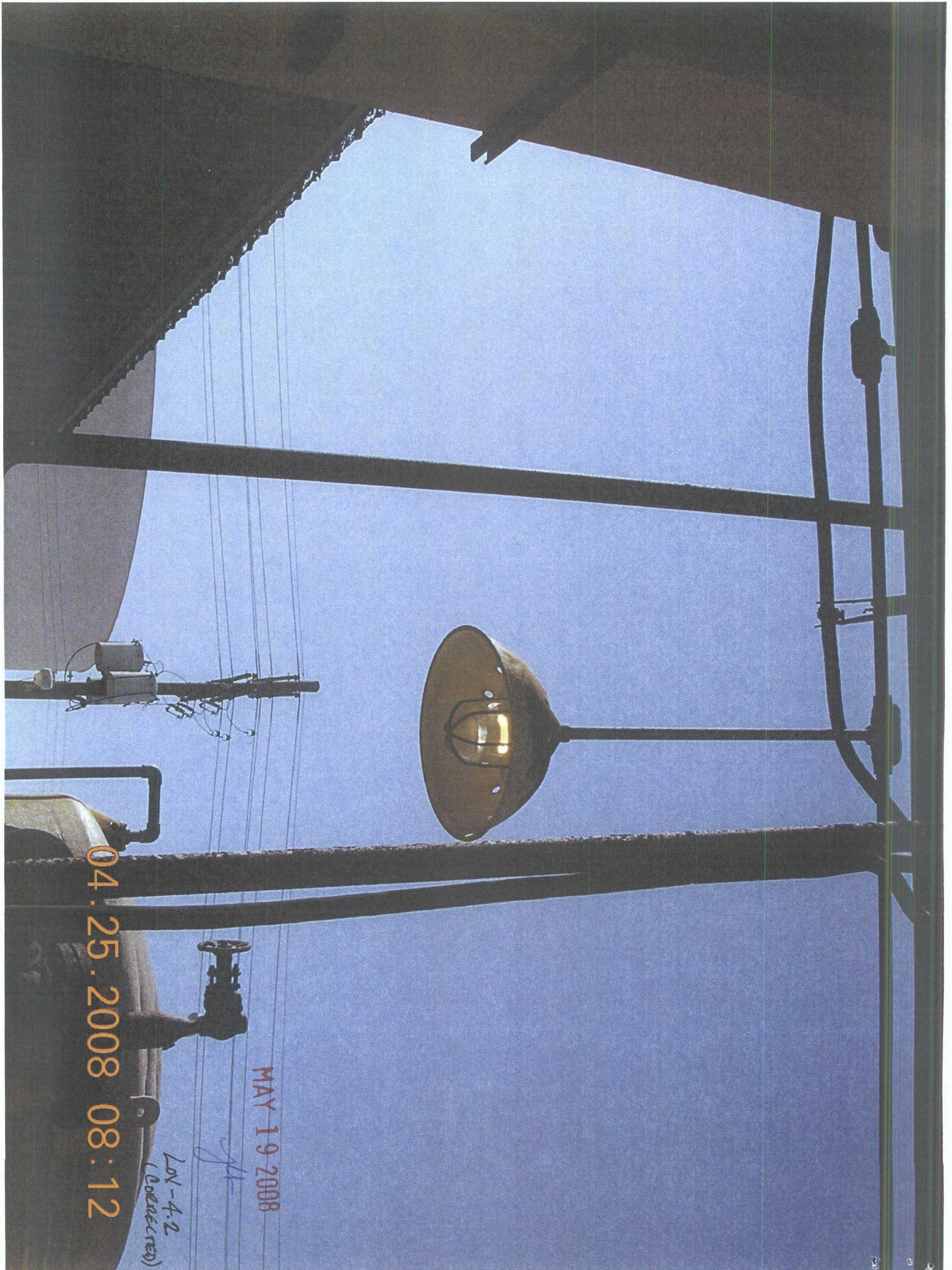
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MAY 19 2008

04.30.2008 08:13

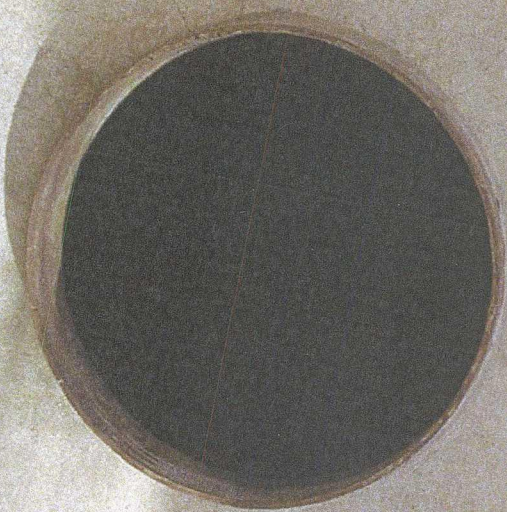
LOW-4.3

DO NOT
CONFINE SPACE
ENTER BY
PERSONS ONLY

04.30.2008 08:09
MAY 19 2008
JL

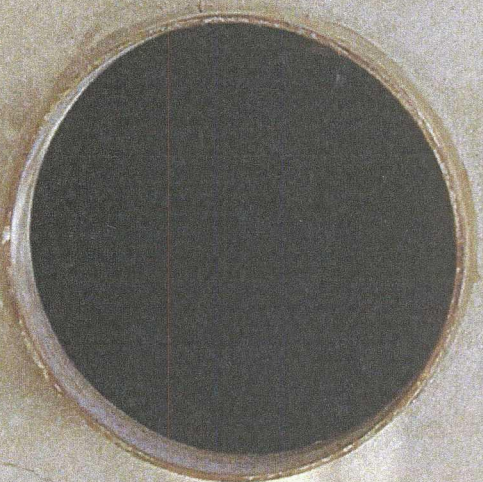
D-2

DANGER
CONFINED SPACE
ENTER BY
PERMIT ONLY



04.30.2008 08:09
MAY 19 2009 *AL*

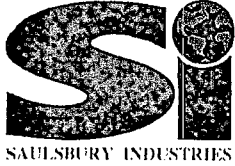
DANGER
CONFINED SPACE
ENTER BY
PERMIT ONLY



04.30.2008 08:09
MAY 19 2008 *gt*

LOV-5-3

1234



SAULSBURY ENGINEERING & CONSTRUCTION

5308 Andrews Highway • Odessa, Texas 79762 • Phone (432) 366-4252 • Fax (432) 366-6952

May 6, 2008

Navajo Refining Company
501 E Main St.
Artesia, NM 88210

Attn: Bill Romine

Re: Foundation weathering under steel supports

Mr. Romine,

Saulsbury Engineering & Construction appreciates the opportunity to consult with NRC on this matter.

At the Lovington plant, the foundations inspected on April 30th have experienced deterioration due to weathering of the concrete.

After a complete inspection of the pipe support foundations a total of thirty-five (35) foundations were identified as requiring repairs to the grout and twenty-seven (27) foundations were identified as showing exposed rebar.

The grout repairs will ensure continued protection against anchor bolt and base plate exposure.

The exposed rebar is subject to rusting and will, over time lose its structural integrity.

Of all the foundations inspected, three foundations were identified that need repair in the near future. These foundations can continue to function under the normal and expected weathering over the next few months. However, if there were an unexpected energy release or abnormally high winds and excessive weathering, the three foundations would require constant monitoring until they were repaired.

Based on the inspection, no foundations are in immediate danger of failure but all would require repair in the coming months.

Attached is a drawing showing each pipe support foundation and recommendations for repair. Foundations noted with a "G" require grout repair only and foundations noted with an "R" will be repaired per the attached detail.

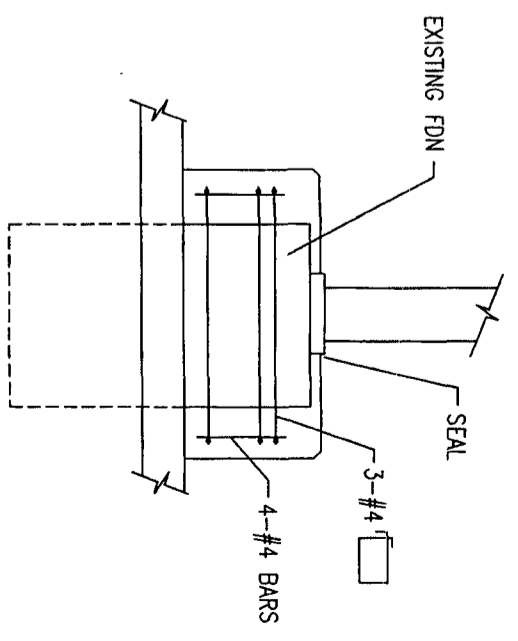
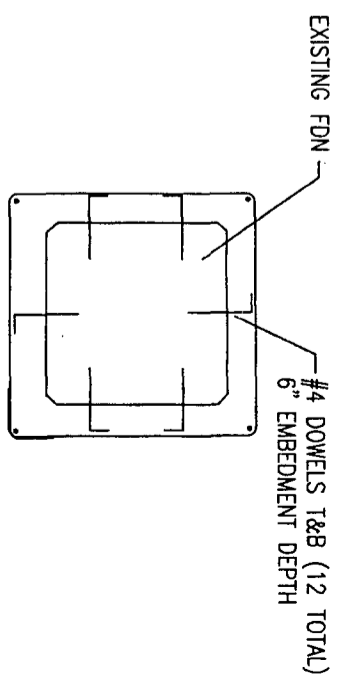
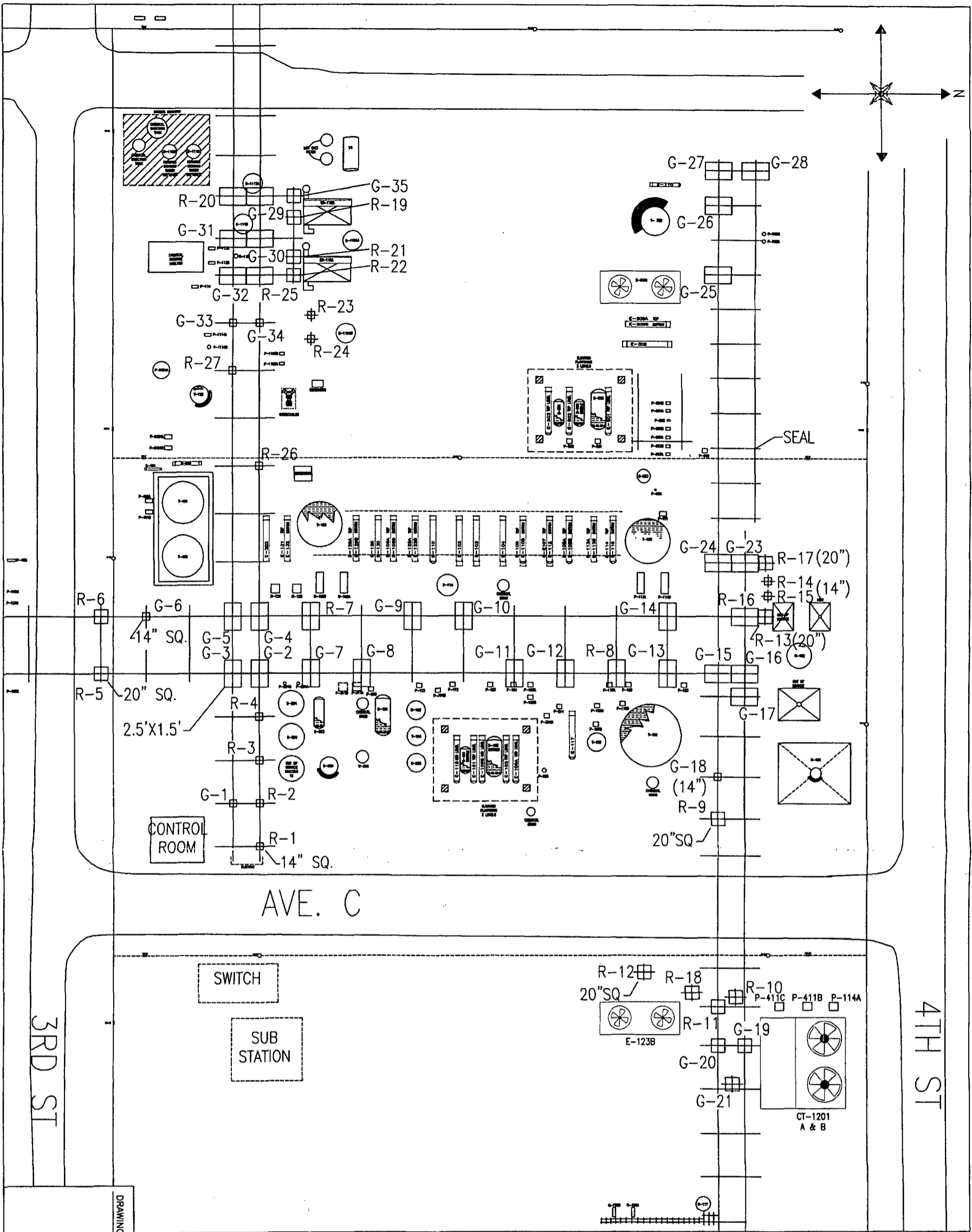
Please do not hesitate to call with any questions.

Regards,

David Campbell, P.E.




MAY 19 2008
LOV-6.1 *jl*



DETAIL REBAR TYPE "R"

NOTES:

- REBAR (TYPE "R")
1. REMOVE ALL LOOSE MATERIAL.
 2. ALL CONCRETE SURFACES TO BE BRUSHED AND BONDING AGENT TO BE APPLIED PRIOR TO PLACING CONCRETE.
 3. EPOXY GROUT SHALL BE USED FOR DOWEL BARS.
 4. R-1 THRU R-4 OVER EXCAVATE 8" BELOW GRADE.
- GROUT (TYPE "G")
1. REMOVE ALL LOOSE MATERIAL.
 2. NON-SHRINK GROUT SHALL BE PLACED WITH EMBEDDED WIRE MESH.

| | | | |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------|-----------|
| DRAWING TITLE | | | |
| PARTIAL PLOT PLAN FOUNDATION REPAIR LEA REFINING LOVINGTON, NM | | | |
|  | | NAVAJO REFINING CO. ENGINEERING DEPARTMENT P.O. DRAWER 159 ARTESIA, NEW MEXICO | |
| DRAWN BY DCJ | CHECKED BY | SCALE NONE | REV. A |
| DATE 5/6/08 | APPROVED BY | DRAWING NUMBER 81-Z-03-D-02 | |

MAY 19 2008 *glt*
L01-L.1

May 6, 2008

Lovington Item #6

As a result of the NEP inspection observations of the pipe support foundations (identified as damaged fire proofing) at the Lovington Facility, we had an independent, professional engineer from Saulsbury Engineering and Construction of Odessa, TX inspect all pipe support foundations in the plant. His report detailing the conditions as inspected is attached. He found no immediate mechanical integrity issues, but has recommended various repairs be made to maintain mechanical integrity well into the future. Navajo has made a commitment to make these repairs and they are scheduled to be completed this summer.

MAY 19 2008
jk
LOV-6.7

SAFETY MEETING SIGN-IN ROSTER

DATE: 4-29-08

LOCATION: LOVINGTON

MEETING SUBJECT(s): Bump test of GasPro monitors

ATTENDEE NAME PRINTED

GARY JORDAN
 Kevin Crockett
~~EFREN~~ EFREN HERNANDEZ
 Daniel M. Gonzales
 Randall Lewis
 FLOYD HERNANDEZ
 Wayne Flowers
 Richard Barnes
 Tommy Hyatt
 Kirk HERNANDEZ
 Dawson Bell
 Paul Brown
 Ken Snow
 Daniel Crockett
 Steve Bush
 Grady Bagley
 Wayne Kuhn
 Mike Ford

ATTENDEE SIGNATURE

1. Gary Jordan
2. Kevin Crockett
3. Efren Hernandez
4. Daniel M. Gonzales
5. Randall Lewis
6. Floyd Hernandez
7. Wayne Flowers
8. Richard Barnes
9. Tommy Hyatt
10. Kirk Hernandez
11. Dawson Bell (5/1/08)
12. Paul Brown
13. Ken Snow
14. Daniel Crockett
15. Steve Bush
16. Grady Bagley
17. Wayne Kuhn
18. Mike Ford
- 19.
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MAY 19 2008 *PL*

DANGER / PELIGRO

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MAY 19 2008

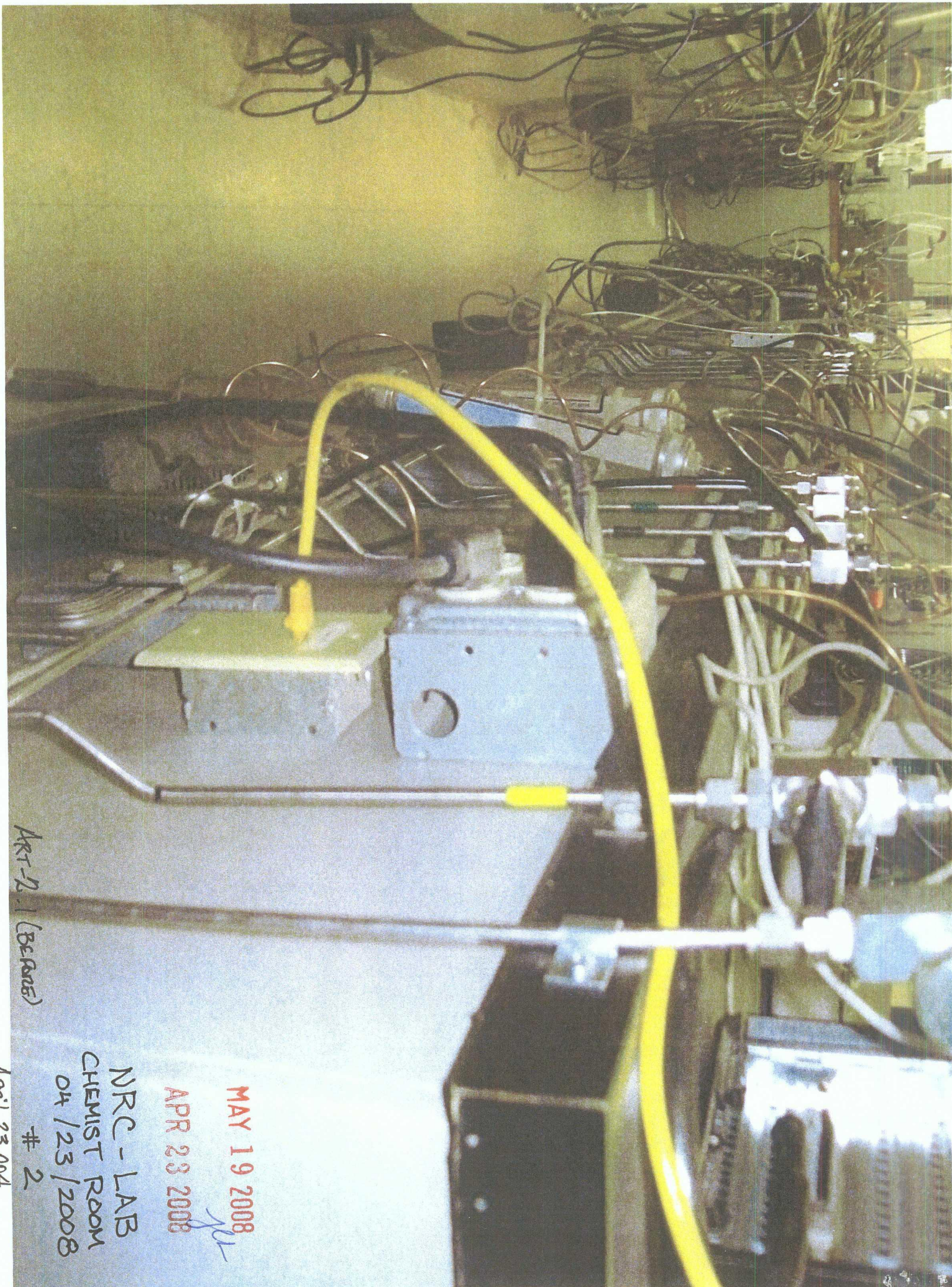
APR 23 2008

NRC - LAB

04/23/2008

ART-1.1 (BEFORE) # 1

April 23 00

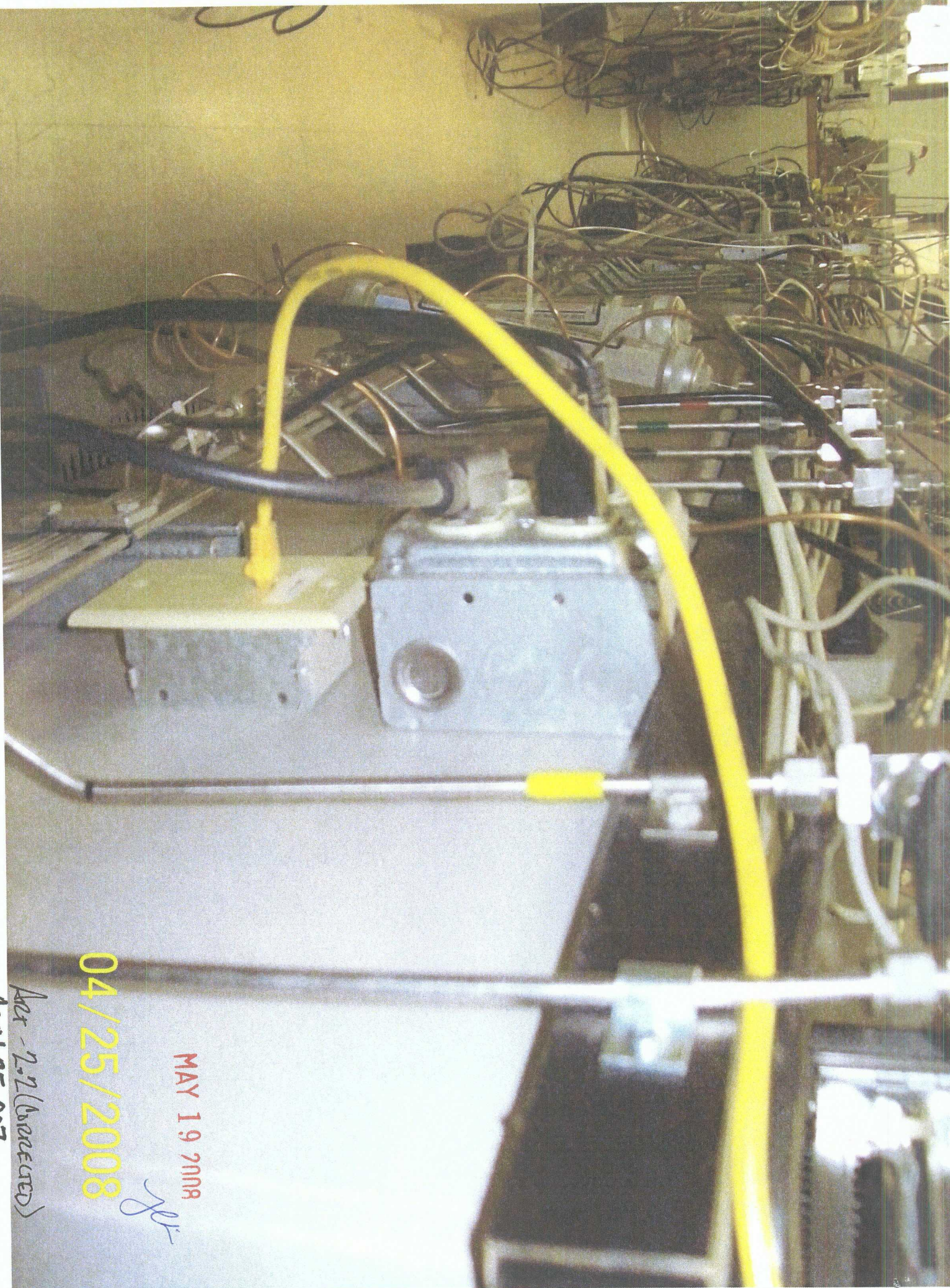


MAY 19 2008
APR 23 2008

NRC - LAB
CHEMIST ROOM
04 / 23 / 2008
2

APR-2.1 (BeRae)

April 23 004



MAY 19 2008

for

04/25/2008

Act - 2.2 (b) (a) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z)

April 25 007

APR 23 2008

CHEMIST ROOM
04/23/2008

3

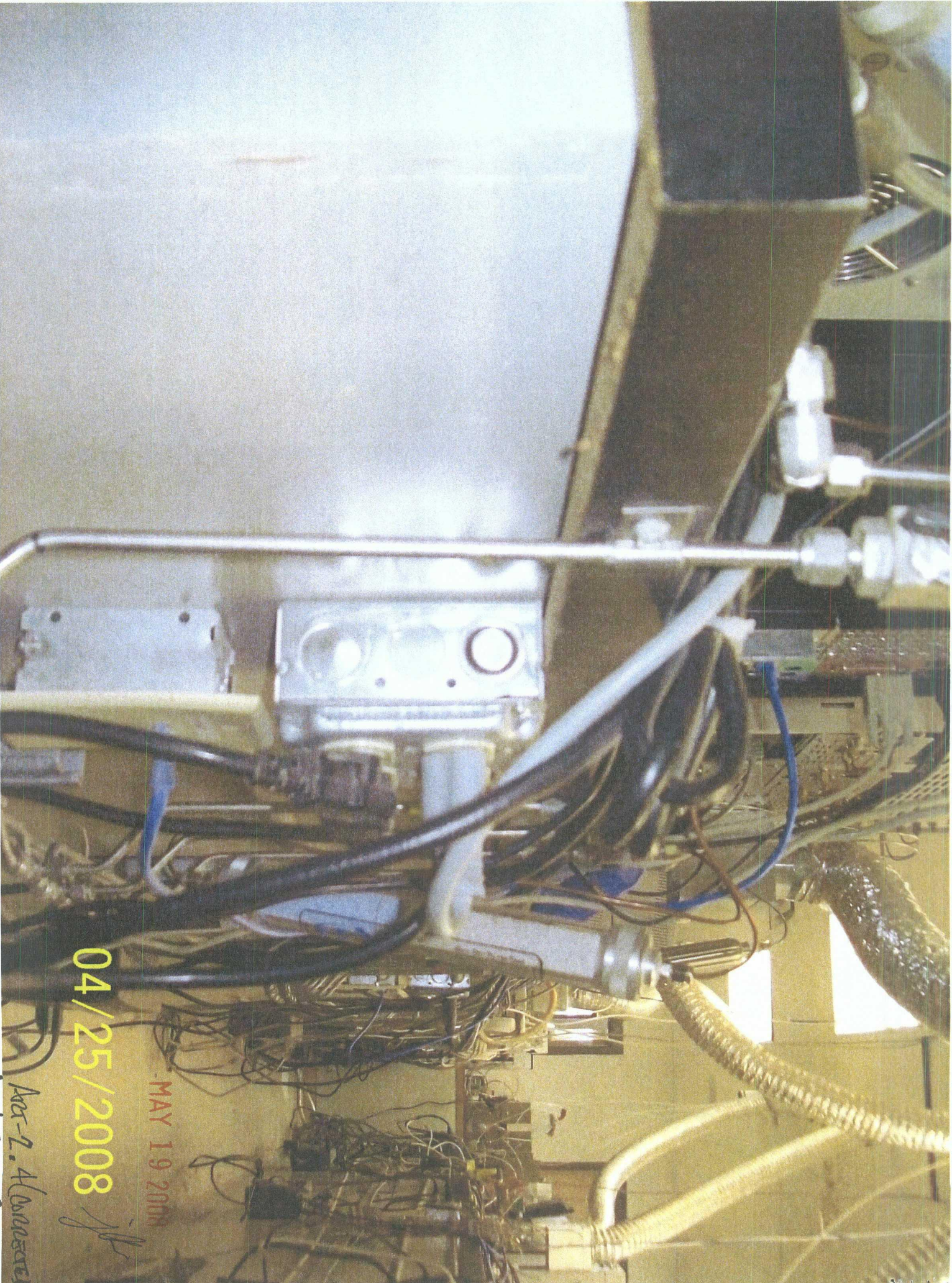
NRC - LAB

MAY 19 2008

fl

Apr-23 (Bureau)

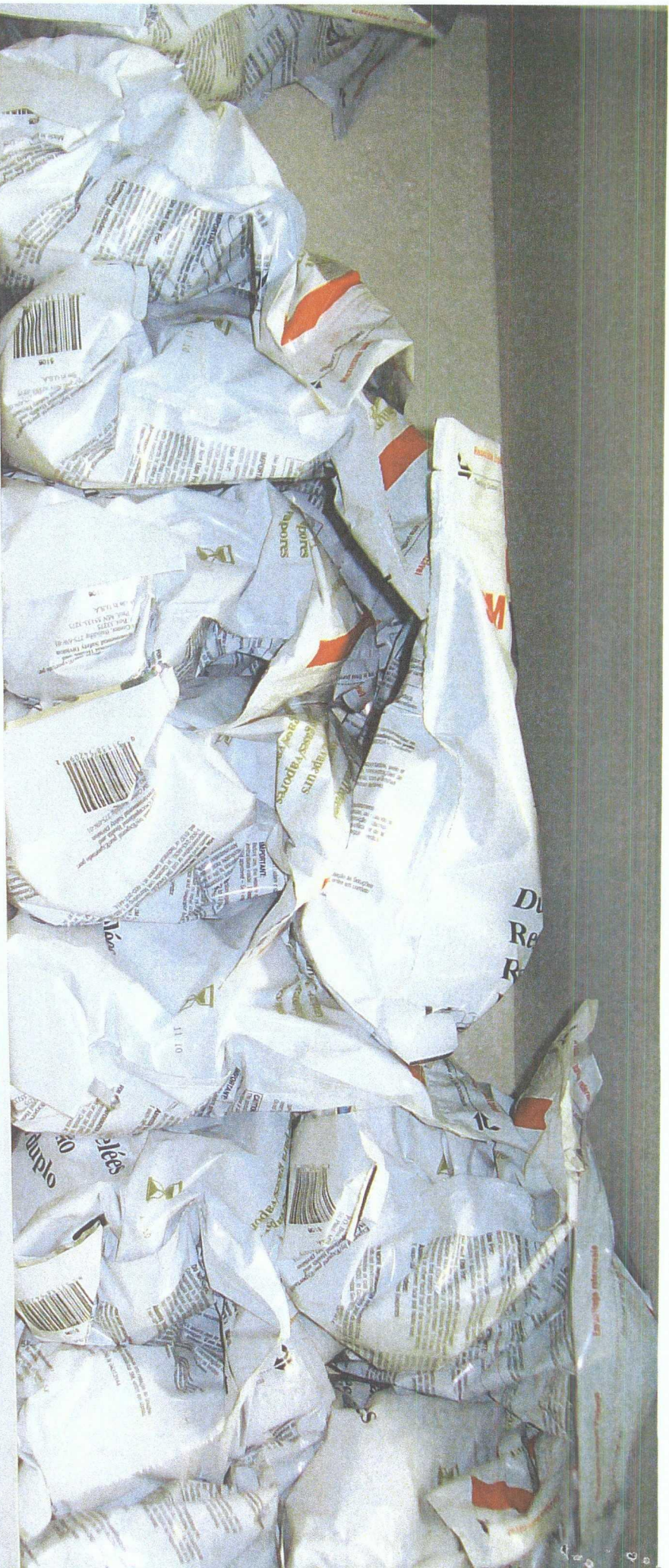
April 23 2005



MAY 19 2008

04/25/2008

Apr-2.4 Connected
April 25 008



SM RESPIRATORS

MAY 19 2008

04/29/2008

AKT-3.1

Apr 1 29 018

MEDIUM RESPIRATORS

04/29/2008

Apr-3.2

April 29 017

↑ MEDIUM RESPIRATORS ↓

LARGE RESPIRATOR

04/29/2008

MAY 19 2008

April 29 016

ORGANIC RESPIRATORS
LARGE
MEDIUM
SMALL

ORGANIC RESPIRATORS
LARGE
MEDIUM
SMALL

MAY 19 2008

04/29/2008

ARS-3.4

RE
EXT-NGU-SHER



04/29/2008

ACG-4.1

April 29 010

04/29/2008

MAY 19 2008

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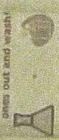
42

FIRE
EXTINGUISHER



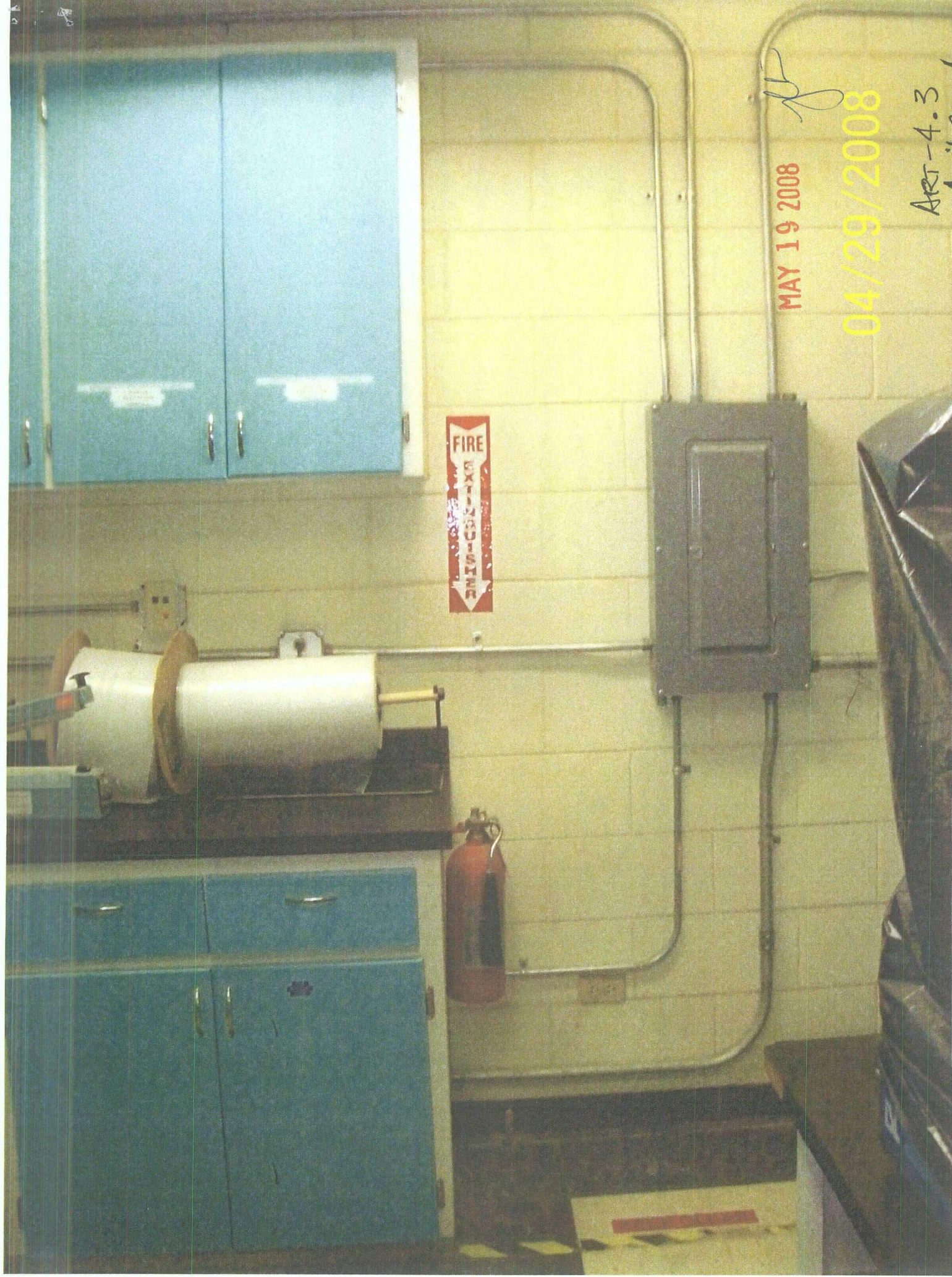
NOT AN
EXIT

When you add a 10-10
resin, take the old
ones out and wash!



When you add a 10-10
resin, take the old
ones out and wash!





MAY 19 2008

04/29/2008

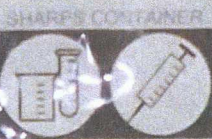
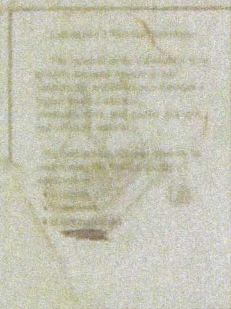
ART-4.3
April 29, 2014

and Kun 4191K
nings, Monday,
day and Friday,
Air, Conductivity,
and Lubricity

Call Bill
Good Truck

124th is N/A
119th is B/A
119th is D/L

ore guy
is not
Chemist



GET TO
DUNSTON, FL, via
Boxes.

NEOHXANE
964-1008

Pipeline #505-748-8950

04/29/2008



AG-5.1

EMERGENCY
EYEWASH



04/29/2008



HELPS!
E
Y
E
IEGO



Apr 5-2
April 29 012



05/12/2008

MAY 19 2008

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AKI-6 MAY 12 2003

MAY 19 2008

per

04/24/2008

AKI-7.1 (BEFORE) April 24 004



MAY 19 2008

gk

10-DJB-01C

04/25/2008

ART-1.2 (CORRECTED) April 15 2006

MAY 19 2008

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LIFT
AIR
FV 502

04/24/2008

ARI-8.1 Apr 24 001



MAY 19 2008

JK

04/24/2008

APR-8.2

April 25 001



MAY 19 2008

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LEFT AIR
FV 502

04/24/2008

GCOR RELCO

AKI-8.1 April 24 001

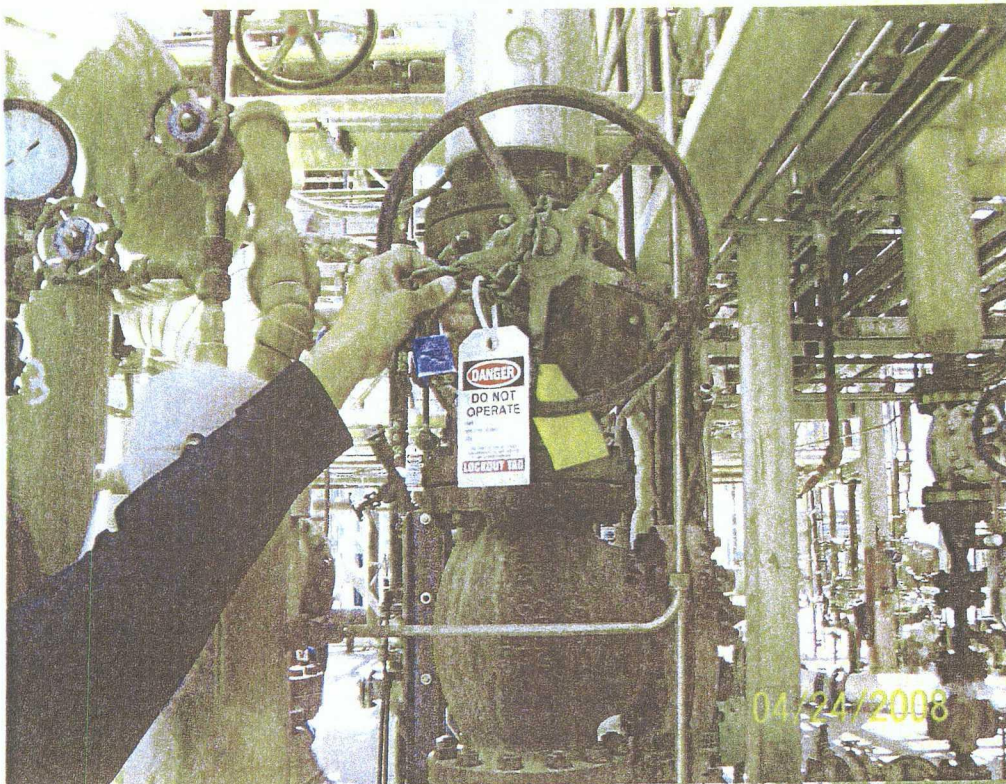
MAY 19 2008

ju

04/24/2008

AKS-B.2 April 25 001

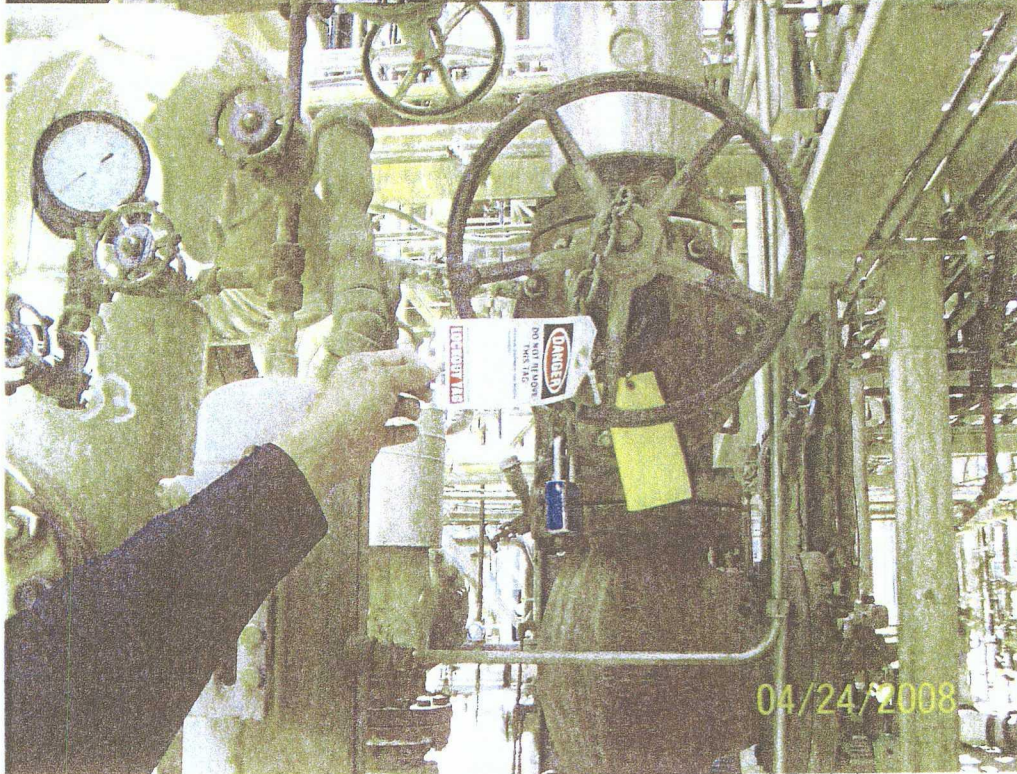
LOTO ON P-959 DISCHARGE VALVE



ART-9.1
April 24 005

MAY 19 2008

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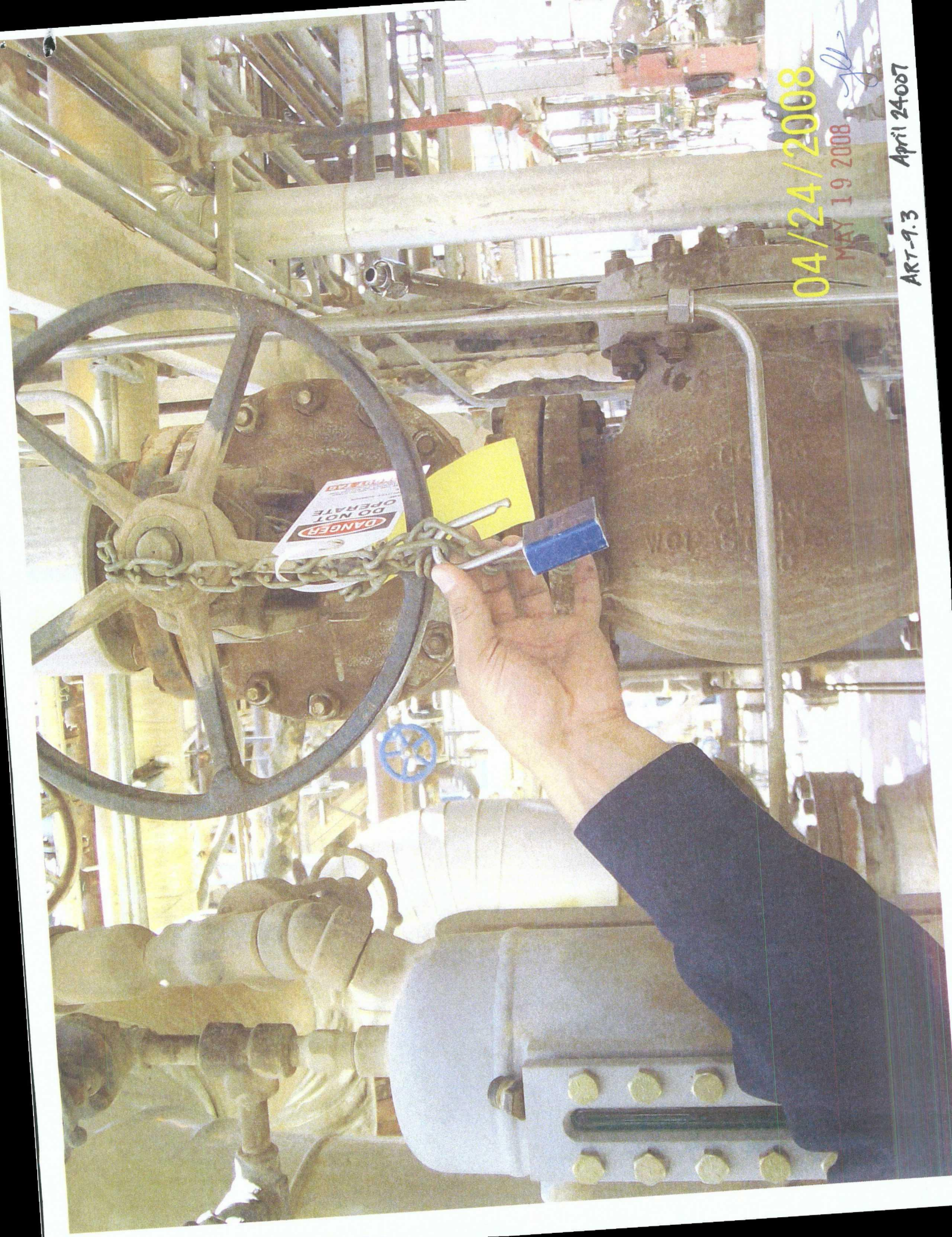
ART-9.2
April 24 006

MAY 19 2008

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FCC-6

LOTO ON P-959 DISCHARGE VALVE



04/24/2008

MAY 19 2008

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ART-9.3

April 24007



LO/TO Lock Inspection and Testing

Department Maintenance

| Craftline | Lock Color | Lock Number | Date Inspected/Tested | Inspected/Tested By | Remarks |
|----------------|------------|-------------|-----------------------|---------------------|---------|
| Champion Labor | BLACK | L001 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L002 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L003 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L004 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L005 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L006 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L007 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L008 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L009 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L010 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L011 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L012 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L013 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L014 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L015 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L016 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L017 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L018 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L019 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L020 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L021 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L022 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L023 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L024 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L025 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L026 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L027 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L028 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L029 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L030 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L031 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L032 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L033 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L034 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L035 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L036 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L037 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L038 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L039 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L040 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L041 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L042 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L043 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L044 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L045 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L046 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L047 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L048 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L049 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L050 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L051 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L052 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L053 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L054 | 04/30/08 | Jacob Aguilar | PASSED |

MAY 19 2008 *ART-9.4*



LO/TO Lock Inspection and Testing

Department Maintenance

| <i>Craftline</i> | <i>Lock Color</i> | <i>Lock Number</i> | <i>Date Inspected/Tested</i> | <i>Inspected/Tested By</i> | <i>Remarks</i> |
|------------------|-------------------|--------------------|------------------------------|----------------------------|----------------|
| Champion Labor | BLACK | L055 | 04/30/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L056 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L057 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L058 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L059 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L060 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L061 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L062 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L063 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L064 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L065 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L066 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L067 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L068 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L069 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L070 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L071 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L072 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L073 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L074 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L075 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L076 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L077 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L078 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L079 | 05/1/08 | Jacob Aguilar | PASSED |
| Champion Labor | BLACK | L080 | 05/1/08 | Jacob Aguilar | PASSED |

MAY 19 2008

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LO/TO Lock Inspection and Testing
Department Maintenance

| Craft/line | Lock Color | Lock Number | Date Inspected/Tested | Inspected/Tested By | Remarks |
|-------------|------------|-------------|-----------------------|---------------------|---------|
| Electrician | Gold | E100 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E101 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E102 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E103 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E104 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E105 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E106 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E107 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E108 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E109 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E110 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E111 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E112 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E113 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E114 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E115 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E116 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E117 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E118 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E119 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E120 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E121 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E122 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E123 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E124 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E125 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E126 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E127 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E128 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E129 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E130 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E131 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E132 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E133 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E134 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E135 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E136 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E137 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E138 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E139 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E140 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E141 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E142 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E143 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E144 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E145 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E146 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E147 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E148 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E149 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E150 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E151 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E152 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E153 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E154 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E155 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E156 | 5/1/2008 | JOT | Passed |

MAY 19 2008

zli



LO/TO Lock Inspection and Testing
Department Maintenance

| Craftline | Lock Color | Lock Number | Date Inspected/Tested | Inspected/Tested By | Remarks |
|-------------|------------|-------------|-----------------------|---------------------|---------|
| Electrician | Gold | E157 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E158 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E159 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E160 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E161 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E162 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E163 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E164 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E165 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E166 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E167 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E168 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E169 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E170 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E171 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E172 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E173 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E174 | 5/1/2008 | JOT | Passed |
| Electrician | Gold | E175 | 5/1/2008 | JOT | Passed |
| | | | | | |
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Note: Stencil numbers on locks

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LO/TO Lock Inspection and Testing

Department **MAINTENANCE**

| Craftline | Lock Color | Lock Number | Date Inspected/Tested | Inspected/Tested By | Remarks |
|-----------|------------|-------------|-----------------------|---------------------|---------|
| IMN | GOLD | I-0001 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0002 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0003 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0004 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0005 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0006 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0007 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0008 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0009 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0010 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0011 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0012 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0013 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0014 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0015 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0016 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0017 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0018 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0019 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0020 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0021 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0022 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0023 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0024 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0025 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0026 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0027 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0028 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0029 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0030 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0031 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0032 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0033 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0034 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0035 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0036 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0037 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0038 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0039 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0040 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0041 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0042 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0043 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0044 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0045 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0046 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0047 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0048 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0049 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0050 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0051 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0052 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0053 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0054 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0055 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0056 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0057 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | I-0058 | 5/5/2008 | Ruben Sanchez | PASSED |

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LO/TO Lock Inspection and Testing
Department MAINTENANCE

| <i>Craftline</i> | <i>Lock Color</i> | <i>Lock Number</i> | <i>Date Inspected/Tested</i> | <i>Inspected/Tested By</i> | <i>Remarks</i> |
|------------------|-------------------|--------------------|------------------------------|----------------------------|----------------|
| IMN | GOLD | 1-0059 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0060 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0061 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0062 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0063 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0064 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0065 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0066 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0067 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0068 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0069 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0070 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0071 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0072 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0073 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0074 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0075 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0076 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0077 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0078 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0079 | 5/5/2008 | Ruben Sanchez | PASSED |
| IMN | GOLD | 1-0080 | 5/5/2008 | Ruben Sanchez | PASSED |
| | | | | | |
| | | | | | |

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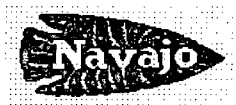


LO/TO Lock Inspection and Testing

Department **MAINTENANCE**

| <i>Craftline</i> | <i>Lock Color</i> | <i>Lock Number</i> | <i>Date Inspected/Tested</i> | <i>Inspected/Tested By</i> | <i>Remarks</i> |
|------------------|-------------------|--------------------|------------------------------|----------------------------|----------------|
| MECHANICS | BLUE | M001 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M002 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M003 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M004 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M005 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M006 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M007 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M008 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M009 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M010 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M011 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M012 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M013 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M014 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M015 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M016 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M017 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M018 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M019 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M020 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M021 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M022 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M023 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M024 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M025 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M026 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M027 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M028 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M029 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M030 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M031 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M032 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M033 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M034 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M035 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M036 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M037 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M038 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M039 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M040 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M041 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M042 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M043 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M044 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M045 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M046 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M047 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M048 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M049 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M050 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M051 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M052 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M053 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M054 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M055 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M056 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M057 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M058 | APRIL 30, 2008 | NFS | PASSED |

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LO/TO Lock Inspection and Testing

Department MAINTENANCE

| <i>Craftline</i> | <i>Lock Color</i> | <i>Lock Number</i> | <i>Date Inspected/Tested</i> | <i>Inspected/Tested By</i> | <i>Remarks</i> |
|------------------|-------------------|--------------------|------------------------------|----------------------------|----------------|
| MECHANICS | BLUE | M059 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M060 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M061 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M062 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M063 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M064 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M065 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M066 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M067 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M068 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M069 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M070 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M071 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M072 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M073 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M074 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M075 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M076 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M077 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M078 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M079 | APRIL 30, 2008 | NFS | PASSED |
| MECHANICS | BLUE | M080 | APRIL 30, 2008 | NFS | PASSED |

Note: Stencil numbers on locks

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LO/TO Lock Inspection and Testing
Department Maintenance

| Craftline | Lock Color | Lock Number | Date Inspected/Tested | Inspected/Tested By | Remarks |
|------------------|-------------------|--------------------|------------------------------|----------------------------|----------------|
| PFT/WLD | RED | P001 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P002 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P003 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P004 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P005 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P006 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P007 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P008 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P009 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P010 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P011 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P012 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P013 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P014 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P015 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P016 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P017 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P018 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P019 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P020 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P021 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P022 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P023 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P024 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P025 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P026 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P027 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P028 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P029 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P030 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P031 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P032 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P033 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P034 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P035 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P036 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P037 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P038 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P039 | 4/30/08 | MEP/6555 | PASSED |
| PFT/WLD | RED | P040 | 4/30/08 | MEP/6555 | PASSED |
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Note: Stencil numbers on locks

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Lockout/Tagout Procedures

Lockout/tagout of equipment is a critical part of an operator's job duties and must be properly done before any maintenance is performed on any equipment in your unit.

All operators are given training on the company's Energy Isolation policy during their initial training and in their yearly CBT safety training. However, to avoid any instances where Lockout/tagout may not be properly carried out, listed below are some more job specific examples of how to lockout/tagout certain equipment in the operating units.

Remember: Proper Lockout/Tagout requires that the operator who locks out the equipment must also attach his tag with the operator's name and the date on it.

This information is to be used in conjunction with the Navajo Refining Energy Isolation policy which can be accessed on the Flashpoint web site. From the Flashpoint *Home* page click on *Locations*, then click on *Artesia*, and then click on *Safety*. Refer to the policy for the specific requirements of all jobs.

Pumps

When preparing a pump for maintenance there are several sources of energy that must be isolated and locked out.

The most obvious is the fluid being pumped by the pump. This must be isolated by closing the appropriate suction and discharge valves on the pump.

The energy that drives the pump must be isolated as well. Most of the pumps in the plant are driven by electric motors and the circuit breaker for the motor must be opened and locked out. Some pumps are driven by steam turbines and the steam supply must be isolated by closing the appropriate inlet and outlet valves

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ART-9.5

on the steam lines to and from the turbine. The turbine must be depressured also.

Some pumps involve other sources of energy that must be isolated such as external seal flush, seal pot vents to flare, nitrogen purge, and cooling water to bearing housings. All these possible sources of energy must be isolated by closing the appropriate valves and locking them out according to the policy.

After **all** sources of energy have been isolated and locked out, the pump must be drained/depressured to a safe location before the maintenance work is begun. After the pump is depressured to the flare system it will be necessary to close and lockout the flare vent valve.

It is the unit operator's responsibility to insure that all other personnel involved in the work install their lockout/tagout device on the appropriate locations before any maintenance work is begun.

The unit operator should be the first one to install his lockout device and the last one to remove it.

Compressors

Compressors are similar to pumps except that they are pumping gases instead of liquids. The lockout/tagout requirements are the same although there may be more lines and valves that must be isolated on a compressor than on a typical pump.

Locking out Valves

When locking out a gate valve the normal procedure is to take the length of chain and wrap it through the spokes of the valve wheel and around the body of the valve or some other solid object in such a way that the valve wheel cannot be turned.

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It is important to get the chain tight so that the valve wheel cannot be moved even one spoke.

There are other types of valves that will have to be locked out from time to time. In the case of ¼ turn valves there are several options for lockout of the valve depending on the construction of the valve. Some ¼ turn valves have a built-in locking loop for a lock to be placed into when the valve is closed. Many valves will not have this and must be locked by other means such as removing the valve handle and wrapping the chain around the valve stem in such a way that the handle cannot be reinstalled until the chain is removed.

Some MOV type valves must have the electrical power or air lines removed to prevent any possibility of movement of the valve. These valves are addressed in your unit operating procedures.

In any instance where you do not have the proper equipment to safely lockout any equipment or are not sure of the proper procedure, ask your foreman or the A-Operator for assistance.

Circuit Breakers

When the motor (or other electrical equipment) is off line, the circuit breaker can be opened and locked in the open position. After the breaker is locked out and the equipment is depressured, make sure it is safe to do so and then push the start button on the motor to verify that the proper breaker has been locked out and the motor does not start.

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NAVAJO REFINING COMPANY

NOTICE OF CHANGE

APPLICABLE RFC OR PHA#:

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There are two phases to the RFC procedures unless it is an emergency.

1. Upon conception of the RFC it will be put in the control room for personnel to review and comment. (After review personnel will sign and date).
2. When it is either put on line or takes effect. (After on line or in effect personnel will initial and date).

In the case of a change not requiring an RFC or if an emergency RFC, both will be done at the same time.

| PHASE 1 | | | PHASE 2 | |
|-------------------|--------------------------|---------|---------|---------|
| NAME | SIGNATURE | DATE | INITIAL | DATE |
| Ricky Apodaca | <i>Ricky Apodaca</i> | 5-13-08 | RA | 5-13-08 |
| Raul Velasquez | <i>Raul Velasquez</i> | 5/12/08 | JTM | 5/12/08 |
| Jim McFatridge | <i>Jim McFatridge</i> | 5-12-08 | ASL | 5-12-08 |
| Jerry Fernandez | <i>Jerry Fernandez</i> | 5-13-08 | KC | 5-13-08 |
| Aaron Lieb | <i>Aaron Lieb</i> | 5-12-08 | JB | 5-12-08 |
| Robert Gurrola | <i>Robert Gurrola</i> | 5-12-08 | CP | 5-12-08 |
| Kevin Cain | <i>Kevin Cain</i> | 5-12-08 | BYH | 5-12-08 |
| Justin Bartlett | <i>Justin Bartlett</i> | 5-12-08 | JH | 5-12-08 |
| Curt Pittam | <i>Curt Pittam</i> | 5-12-08 | WR | 5-12-08 |
| Michael Parra | <i>Michael Parra</i> | 5-13-08 | EW | 5-13-08 |
| Billy Hamilton | <i>Billy Hamilton</i> | 5-12-08 | EW | 5-12-08 |
| Tim Duncan | <i>Tim Duncan</i> | 5-12-08 | EW | 5-12-08 |
| William Briscoe | <i>William Briscoe</i> | 5-12-08 | EW | 5-12-08 |
| Curtis Pennington | <i>Curtis Pennington</i> | 5-13-08 | EW | 5-13-08 |
| Ernesto Navarette | <i>Ernesto Navarette</i> | 5-12-08 | EW | 5-12-08 |
| Brett Smith | <i>Brett Smith</i> | 5-12-08 | EW | 5-12-08 |
| Kent bush | <i>Kent bush</i> | 5-12-08 | EW | 5-12-08 |
| Mark Duncan | <i>Mark Duncan</i> | 5-14-08 | EW | 5-14-08 |
| Bernie Cardenas | <i>Bernie Cardenas</i> | 5-13-08 | EW | 5-13-08 |
| John Sterling | <i>John Sterling</i> | 5-13-08 | EW | 5-13-08 |
| Gabriel Garcia | <i>Gabriel Garcia</i> | 5-14-08 | EW | 5-14-08 |
| Daniel Montoya | <i>Daniel Montoya</i> | 5-13-08 | EW | 5-13-08 |
| Denver Cain | <i>Denver Cain</i> | 5-13-08 | EW | 5-13-08 |
| Arturo Vasquez | <i>Arturo Vasquez</i> | 5-12-08 | EW | 5-12-08 |
| Hoby Barrera | <i>Hoby Barrera</i> | 5-12-08 | EW | 5-12-08 |
| Gabe Turner | <i>Gabe Turner</i> | 5-12-08 | EW | 5-12-08 |
| Brian Shetterly | <i>Brian Shetterly</i> | 5-12-08 | EW | 5-12-08 |
| Ernest Barela | <i>Ernest Barela</i> | 5-12-08 | EW | 5-12-08 |

MAY 19 2008

jlh

Lockout/Tagout Procedures

Lockout/tagout of equipment is a critical part of an operator's job duties and must be properly done before any maintenance is performed on any equipment in your unit.

All operators are given training on the company's Energy Isolation policy during their initial training and in their yearly CBT safety training. However, to avoid any instances where Lockout/tagout may not be properly carried out, listed below are some more job specific examples of how to lockout/tagout certain equipment in the operating units.

Remember: Proper Lockout/Tagout requires that the operator who locks out the equipment must also attach his tag with the operator's name and the date on it.

This information is to be used in conjunction with the Navajo Refining Energy Isolation policy which can be accessed on the Flashpoint web site. From the Flashpoint *Home* page click on *Locations*, then click on *Artesia*, and then click on *Safety*. Refer to the policy for the specific requirements of all jobs.

Pumps

When preparing a pump for maintenance there are several sources of energy that must be isolated and locked out.

The most obvious is the fluid being pumped by the pump. This must be isolated by closing the appropriate suction and discharge valves on the pump.

The energy that drives the pump must be isolated as well. Most of the pumps in the plant are driven by electric motors and the circuit breaker for the motor must be opened and locked out. Some pumps are driven by steam turbines and the steam supply must be isolated by closing the appropriate inlet and outlet valves

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on the steam lines to and from the turbine. The turbine must be depressured also.

Some pumps involve other sources of energy that must be isolated such as external seal flush, seal pot vents to flare, nitrogen purge, and cooling water to bearing housings. All these possible sources of energy must be isolated by closing the appropriate valves and locking them out according to the policy.

After **all** sources of energy have been isolated and locked out, the pump must be drained/depressured to a safe location before the maintenance work is begun. After the pump is depressured to the flare system it will be necessary to close and lockout the flare vent valve.

It is the unit operator's responsibility to insure that all other personnel involved in the work install their lockout/tagout device on the appropriate locations before any maintenance work is begun.

The unit operator should be the first one to install his lockout device and the last one to remove it.

Compressors

Compressors are similar to pumps except that they are pumping gases instead of liquids. The lockout/tagout requirements are the same although there may be more lines and valves that must be isolated on a compressor than on a typical pump.

Locking out Valves

When locking out a gate valve the normal procedure is to take the length of chain and wrap it through the spokes of the valve wheel and around the body of the valve or some other solid object in such a way that the valve wheel cannot be turned.

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It is important to get the chain tight so that the valve wheel cannot be moved even one spoke.

There are other types of valves that will have to be locked out from time to time. In the case of $\frac{1}{4}$ turn valves there are several options for lockout of the valve depending on the construction of the valve. Some $\frac{1}{4}$ turn valves have a built-in locking loop for a lock to be placed into when the valve is closed. Many valves will not have this and must be locked by other means such as removing the valve handle and wrapping the chain around the valve stem in such a way that the handle cannot be reinstalled until the chain is removed.

Some MOV type valves must have the electrical power or air lines removed to prevent any possibility of movement of the valve. These valves are addressed in your unit operating procedures.

In any instance where you do not have the proper equipment to safely lockout any equipment or are not sure of the proper procedure, ask your foreman or the A-Operator for assistance.

Circuit Breakers

When the motor (or other electrical equipment) is off line, the circuit breaker can be opened and locked in the open position. After the breaker is locked out and the equipment is depressured, make sure it is safe to do so and then push the start button on the motor to verify that the proper breaker has been locked out and the motor does not start.

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CCR/ALKY DIVISION

Page 2 of 2

There are two phases to the RFC procedures unless it is an emergency.

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| PHASE 1 | | | PHASE 2 | |
|-------------------|--------------------------|-----------|---------|-----------|
| NAME | SIGNATURE | DATE | INITIAL | DATE |
| Dale Hughes | <i>DALE HUGHES</i> | 5-11-08 | SDH. | 5-11-08 |
| Richard Rosco | <i>Richard Rosco</i> | 5-6-08 | RLO | 5-6-08 |
| Mike DeAnda | <i>m. D. DeAnda</i> | 5-17-08 | MDO | 5-17-08 |
| David Navarrette | <i>David Navarrette</i> | 5-15-08 | DN | 5-15-08 |
| Richard Aguilar | <i>Richard Aguilar</i> | 5-5-08 | RAA | 5-6-08 |
| Jesus Acosta | <i>Jesus Acosta</i> | 5-14-08 | JMA | 5-14-08 |
| Jason Steed | <i>Jason Steed</i> | 5-17-08 | JLS | 5-17-08 |
| Loda Anderson | <i>Loda Anderson</i> | 5-13-08 | LA | 5-13-08 |
| Johnny Craft | <i>Johnny Craft</i> | 5-9-08 | JC | 5-9-08 |
| Matthew McGowan | <i>Matthew McGowan</i> | 5-16-08 | MM | 5-16-08 |
| David Joyce | <i>David Joyce</i> | 5-6-08 | DJ | 5-6-08 |
| Cynthia Carpenter | <i>Cynthia Carpenter</i> | 5-13-08 | CC | 5-13-08 |
| Eric Harden | <i>Eric Harden</i> | 05/06/08 | EH | 05/06/08 |
| Justin Barber | | | | |
| Charles Pinson | <i>Charles Pinson</i> | 5-11-08 | CP | 5-11-08 |
| Jason Reyes | <i>Jason Reyes</i> | 5-17-08 | JAR | 5-17-08 |
| Brent Thomas | <i>Brent Thomas</i> | 5-13-08 | BTP | 5-13-08 |
| Abel Florez | <i>Abel Florez</i> | 5-17-08 | AF | 5-17-08 |
| Joe Madrid | <i>Joe Madrid</i> | 5-11-08 | JM | 5-11-08 |
| Robert Lintz | <i>Robert Lintz</i> | 5-6-08 | REL | 5-6-08 |
| Lalo Galvan | <i>Lalo Galvan</i> | 5-12-08 | LG | 5-12-08 |
| Daniel Boone | <i>Daniel Boone</i> | 5-9-08 | DB | 5-9-08 |
| James Seely | <i>James Seely</i> | 5-13 | JS | 5-13 |
| John Wilson | <i>John Wilson</i> | 5-6-08 | JW | 5-6-08 |
| Jamie Polito | <i>Jamie Polito</i> | 5-6-08 | JP | 5-6-08 |
| Holly Schiel | | | | |
| Jimmy Sanchez | NO LONGER HERE | | | |
| Lee Cotrell | <i>Lee Cotrell</i> | 5-13-08 | LC | 5-13-08 |
| Joshua Decoteau | <i>Joshua Decoteau</i> | 5-9-08 | JD | 5-9-08 |
| Cecil Vaughn | <i>Cecil Vaughn</i> | 5-13-08 | CV | 5-13-08 |
| Orlando Coss | <i>Orlando Coss</i> | 5-11-08 | OC | 5-11-08 |
| Zach Berry | <i>Zach Berry</i> | 5/13/08 | ZB | 5-13 |
| Michael Figueroa | <i>Michael Figueroa</i> | 5-8-08 | MF | 5-8-08 |
| Melissa Peterson | <i>Melissa Peterson</i> | 5-11-08 | MP | 5-11-08 |
| Johnson, Ron | <i>Ron Johnson</i> | 5-14-08 | RJ | 5-14-08 |
| Kris Antione | <i>Kris Antione</i> | 17 may 08 | KA | 17 may 08 |
| Jacob Tuley | <i>Jacob Tuley</i> | 5-13-08 | JT | 5-13-08 |

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Lockout/Tagout Procedures

Lockout/tagout of equipment is a critical part of an operator's job duties and must be properly done before any maintenance is performed on any equipment in your unit.

All operators are given training on the company's Energy Isolation policy during their initial training and in their yearly CBT safety training. However, to avoid any instances where Lockout/tagout may not be properly carried out, listed below are some more job specific examples of how to lockout/tagout certain equipment in the operating units.

Remember: Proper Lockout/Tagout requires that the operator who locks out the equipment must also attach his tag with the operator's name and the date on it.

This information is to be used in conjunction with the Navajo Refining Energy Isolation policy which can be accessed on the Flashpoint web site. From the Flashpoint *Home* page click on *Locations*, then click on *Artesia*, and then click on *Safety*. Refer to the policy for the specific requirements of all jobs.

Pumps

When preparing a pump for maintenance there are several sources of energy that must be isolated and locked out.

The most obvious is the fluid being pumped by the pump. This must be isolated by closing the appropriate suction and discharge valves on the pump.

The energy that drives the pump must be isolated as well. Most of the pumps in the plant are driven by electric motors and the circuit breaker for the motor must be opened and locked out. Some pumps are driven by steam turbines and the steam supply must be isolated by closing the appropriate inlet and outlet valves

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on the steam lines to and from the turbine. The turbine must be depressured also.

Some pumps involve other sources of energy that must be isolated such as external seal flush, seal pot vents to flare, nitrogen purge, and cooling water to bearing housings. All these possible sources of energy must be isolated by closing the appropriate valves and locking them out according to the policy.

After **all** sources of energy have been isolated and locked out, the pump must be drained/depressured to a safe location before the maintenance work is begun. After the pump is depressured to the flare system it will be necessary to close and lockout the flare vent valve.

It is the unit operator's responsibility to insure that all other personnel involved in the work install their lockout/tagout device on the appropriate locations before any maintenance work is begun.

The unit operator should be the first one to install his lockout device and the last one to remove it.

Compressors

Compressors are similar to pumps except that they are pumping gases instead of liquids. The lockout/tagout requirements are the same although there may be more lines and valves that must be isolated on a compressor than on a typical pump.

Locking out Valves

When locking out a gate valve the normal procedure is to take the length of chain and wrap it through the spokes of the valve wheel and around the body of the valve or some other solid object in such a way that the valve wheel cannot be turned.

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It is important to get the chain tight so that the valve wheel cannot be moved even one spoke.

There are other types of valves that will have to be locked out from time to time. In the case of ¼ turn valves there are several options for lockout of the valve depending on the construction of the valve. Some ¼ turn valves have a built-in locking loop for a lock to be placed into when the valve is closed. Many valves will not have this and must be locked by other means such as removing the valve handle and wrapping the chain around the valve stem in such a way that the handle cannot be reinstalled until the chain is removed.

Some MOV type valves must have the electrical power or air lines removed to prevent any possibility of movement of the valve. These valves are addressed in your unit operating procedures.

In any instance where you do not have the proper equipment to safely lockout any equipment or are not sure of the proper procedure, ask your foreman or the A-Operator for assistance.

Circuit Breakers

When the motor (or other electrical equipment) is off line, the circuit breaker can be opened and locked in the open position. After the breaker is locked out and the equipment is depressured, make sure it is safe to do so and then push the start button on the motor to verify that the proper breaker has been locked out and the motor does not start.

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NAVAJO REFINING COMPANY

NOTICE OF CHANGE

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Page 2 of 2

Lock-out & Tag-out

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| PHASE 1 | | | PHASE 2 | |
|--------------------------|-----------|---------|---------|---------|
| NAME | SIGNATURE | DATE | INITIAL | DATE |
| Jerald Vance | | 4/29/08 | JV | 4/29/08 |
| Jesus Alvarado | | 5-1-08 | JA | 5-1-08 |
| Cruz Lara | | 4-3-08 | CL | 5-3-08 |
| Ricky Garcia | | 5-1-08 | R.G. | 5-1-08 |
| Danny Kelley | | 4-29-08 | D.R.K. | 4-29-08 |
| Don Cousins | | 5/3/08 | DC | 5/3/08 |
| Rayna Johnson | | 5-1-08 | RJ | 5-1-08 |
| Gilbert Trujillo | | 4/29/08 | GT | 4/29/08 |
| Thomas Smith | | 4-29-08 | TWS | 4-29-08 |
| David Rutherford | | 4-29-8 | DR | 4-29-8 |
| David Bethke | | 5-3-08 | DB | 5-3-08 |
| Aguilar, Roman | | 4-29-08 | RA | 4-29-08 |
| Pinson, Stephen | | 5-13-08 | SP | 5-13-08 |
| Ochoa, Damian | | 5-1-08 | DO | 5-1-08 |
| Balencia, Joesph | | 4-29-08 | JB | 4-29-08 |
| Fernandez, Pete | | 5-1-08 | PF | 5-1-08 |
| Seely, Jake | | 4-29-08 | JS | 4-29-08 |
| Aguirre, Hugo | | 5-3-08 | HA | 5-3-08 |
| Lewis, Samuel | | 5-4-08 | SL | 5-4-08 |
| Joaquin, Avila | | 4-29-08 | JA | 4-29-08 |
| Collins, Doug | | 5-1-08 | DC | 5-1-08 |
| Pando, Eddie | | 4-29-08 | EP | 4-29-08 |
| Logsdon, Roy | | 5-6-08 | RL | 5-6-08 |
| Austin, John Sick 1-21-1 | | | | |
| Watkins, Jason | | 4/29/08 | WJ | 4/29/08 |
| Anaya, Xavier | | 5-3-08 | XA | 5-3-08 |
| Madrid, Darla | | 4/29/08 | DM | 4/29/08 |

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A handwritten signature in black ink, appearing to be 'JH' or similar, located at the bottom right of the page.

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Page 2 of 2

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| PHASE 1 | | | PHASE 2 | |
|----------------------------|---------------------|--------|------------------|--------|
| NAME | SIGNATURE | DATE | INITIAL | DATE |
| Ysidro Salazar | | | | |
| Kerry Ornelas | <i>[Signature]</i> | 5-6-08 | <i>[Initial]</i> | 5-6-08 |
| Henry Rodriguez | | | | |
| Kevin Newton | <i>Kevin Newton</i> | 5/6/08 | <i>KN</i> | 5-6-08 |
| Mark McCaleb | | | | |
| Jeff Youtsey | <i>[Signature]</i> | 5-6-08 | <i>JY</i> | 5-6-08 |
| Jon Solt | <i>[Signature]</i> | 5-6-08 | <i>JS</i> | 5-6-08 |
| Rick Kelley | | | | |
| Raul Anaya | | | | |
| Jeff Stack | | | | |
| Mike Callaway | <i>[Signature]</i> | 5-6-08 | <i>MC</i> | 5-6-08 |
| George Bergstrom <i>JC</i> | <i>[Signature]</i> | 5-6-08 | <i>JC</i> | 5-6-08 |
| Tod Truog | <i>[Signature]</i> | 5/6/08 | <i>TT</i> | 5/6/08 |
| Mike Murley | | | | |
| Dwight Bever | <i>[Signature]</i> | 5-6-08 | <i>DB</i> | 5-6-08 |
| Dorado, Marty | <i>[Signature]</i> | 5-6-08 | <i>MD</i> | 5-6-08 |
| Sue Evanoff | | | | |
| Shane Smith | | | | |
| Ross Meneffe | <i>[Signature]</i> | 5-6-08 | <i>RM</i> | 5-6-08 |
| Jeff Molina | | | | |
| Erik McCormick | | | | |
| Michael Thompson | | | | |
| Humberto Lopez | <i>[Signature]</i> | 5-6-08 | <i>[Initial]</i> | 5-6-08 |
| Jim Carmichael | | | | |
| | | | | |
| | | | | |

MAY 19 2008

[Handwritten signature]

1. The following information must appear on the label of each respirator:
 a. The name of the manufacturer.
 b. The model number.
 c. The date of manufacture.
 d. The date of expiration.
 e. The name of the user.
 f. The name of the inspector.
 g. The name of the agency.
 h. The name of the state.
 i. The name of the country.

NOTE: A RESPIRATOR NOT ROUTINELY USED BUT KEPT FOR EMERGENCY USE SHALL BE INSPECTED AT LEAST MONTHLY. ALL RESPIRATORS SHALL BE INSPECTED AFTER EACH USE. IF ANY MALFUNCTION IS NOTED, REMOVE THE RESPIRATOR FROM SERVICE AND TAG FOR REPAIR BY AUTHORIZED PERSONNEL.

Place the inspectors initials in the appropriate box for the month and year of the inspection. (Use an indelible pen - Sharpie)

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2005 | | | | | | | | | | | | |
| 2006 | | | | | | | | | | | | |
| 2007 | | | | | | | | | | | | |
| 2008 | | | | | | | | | | | | |

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05/12/2008

ACT-10 MAY 12 2001



04/24/2008

MAY 19 2008

gls

(Before) ART - 11.1

APR 25 082



04/24/2008
MAY 19 2008

(CORRECTED) KET-11.2 April 25 003

05/20/08

Thermon -

Please sign and return one copy
of the transmittal to me.

Thanks.

Jennifer Hilliard