



U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration



Central Region Update



Nebraska State Fire Marshal Pipeline Safety Seminar March 26, 2013

Harold Winnie
Community Assistance and Technical Services
Project Manager
PHMSA, Office of Pipeline Safety Central Region



Central Region Update

Harold Winnie

**Community Assistance and
Technical Services Project Manager**

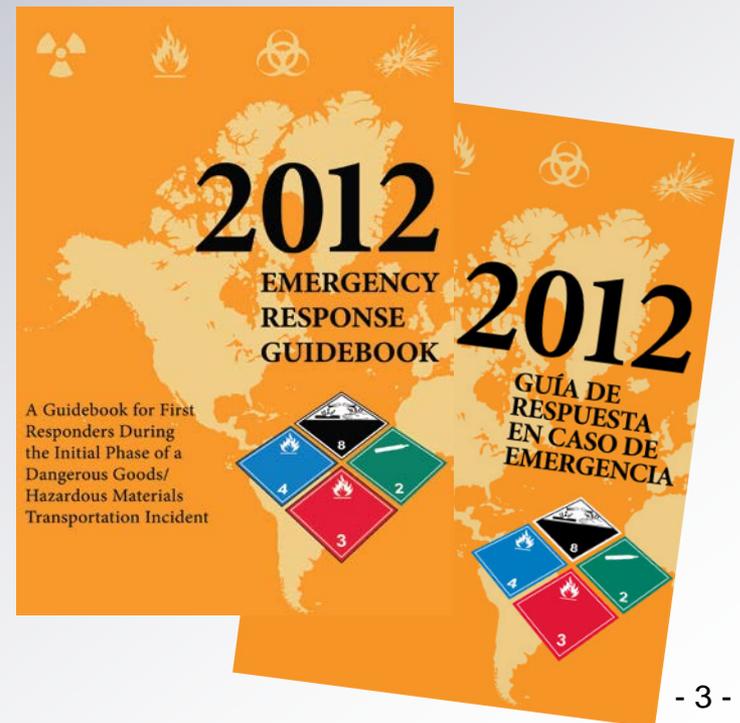
March 27, 2013



ERG2012

English and Spanish Versions

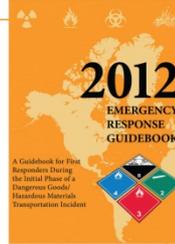
- The Emergency First Responder's First Resource—*worldwide!*
- New addition available to State Coordinators May 2012
- Published every four years
- 13 million copies have been distributed to public safety organizations
- Published in more than 17 languages
- More than 2 million copies of the ERG2012 printed
- ERG2012 iPhone- and Android-compatible mobile apps *now available* for mobile devices





2012

SUMMARY OF CHANGES FROM ERG2008



- **The Guidebook cover has been updated.**
- **General Information (WHITE) pages – several sections have been moved to the back of the book.**
- **Various sections have been expanded and/or revised, including:**
 - Shipping Documents (Papers)
 - How to Use this Guidebook During an Incident
 - User's Guide
 - Isolation and Evacuation Distances
 - Who to Call for Assistance
 - Table of Placards and Initial Response Guide to Use On-Scene
 - Rail Car Identification Chart
 - Road Trailer Identification Chart
 - Fire and Spill Control
 - Pipeline Safety Information
 - Criminal/Terrorist Use of Chemical/Biological/Radiological Agents
 - Glossary
 - Publication Data (and related information)
 - Emergency Response Telephone Numbers

Index List of Dangerous Goods in Order of ID Number (YELLOW-bordered pages) and the Index List of Dangerous Goods in Alphabetical Order (BLUE-bordered pages):

Addition of all new dangerous goods listed in UN Recommendations on the Transport of Dangerous Goods to 17th Revised Edition

Emergency Recommendation/Emergency Response Guides (RED-bordered pages), "or ORANGE-bordered pages):

Re-organization of some guides

Re-organization of Initial Isolation and Protective Action Distances, and the Table of Water-Reactive Materials Which Release Toxic Gases (GREEN-bordered pages):

Revised Table 3 for six gases which are toxic by inhalation

Re-organization of Initial Isolation and Protective Action Distances

Revised Boiling Liquid Expanding Vapor Explosion Chart to Fire and Spill Control Section

Revised Improvised Explosive Device (IED) Safe Distances Chart to Criminal/Terrorist Section

1200 New Jersey Avenue, SE, PHH-50
Washington, DC 20590-0001
Phone: (202) 366-2301
Fax: (202) 366-7342
E-mail: training@dot.gov

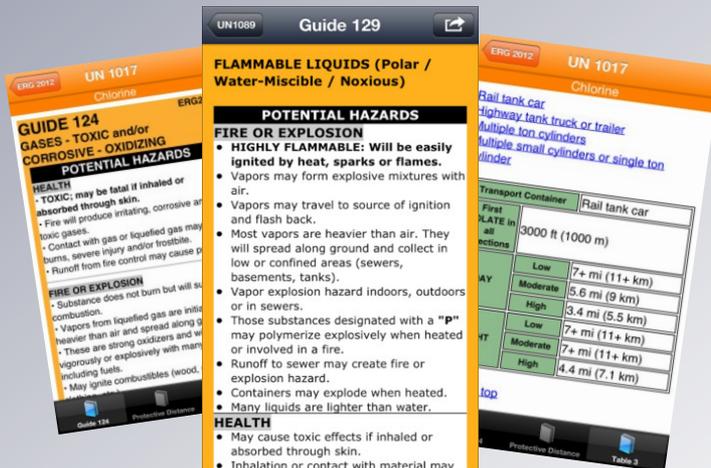
<http://hazmat.dot.gov>
Hazardous Materials INFO-LINE: (800) 467-4922

<http://prod-edit.phmsa.dot.gov:8080/hazmat/library>



New ERG2012 Mobile Phone Apps

ERG2012 is now available **free** of charge for Android and iPhones via Google Apps and Apple Apps stores.





New on DVD: “How to Use the ERG2012”



**Emergency Response
Guidebook 2012**

**BEFORE AN EMERGENCY –
BECOME FAMILIAR WITH THE ERG**

The ERG is a guide to aid first responders to quickly identify the specific or generic hazards of the material(s) involved in an incident, and to protect themselves and the general public during the initial response phase of an incident.

Key Features:

- + ERG Training Module
- + Instructors Edition
- + Interviews
- + Closed Captions (CC)

U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration
<http://www.phmsa.dot.gov>

This training video was developed by the International
Association of Fire Chiefs under a Cooperative Agreement
with the U.S. Department of Transportation, Pipeline and
Hazardous Materials Safety Administration (PHMSA) to
educate responders on how to use the ERG.

www.iafc.org

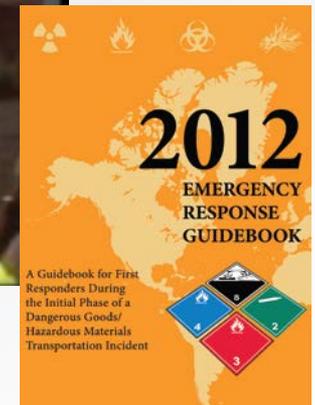
Free DVD copies available to order soon from PHMSA’s website.



New "How to Use the ERG2012" Video on YouTube



www.youtube.com/watch?v=wIZTc7z7yjl&feature=youtu.be





Developing Strategies and Building Partnerships

- Transportation Community Awareness and Emergency Response (TRANSCAER®)
 - Voluntary national outreach effort assisting communities prepare for and respond to hazmat transportation incidents
- National Association of State Fire Marshals (NASFM)
 - Ongoing Cooperative Agreement that produced *Pipeline Emergencies* training curriculum
- Tremendous support from the U.S. Fire Administration
- Pipeline Emergency Response Working Group
- Georgia Pilot – PHMSA Southern Region



PHMSA Pipeline Emergency Resources

**NPMS is for
planning**

- National Pipeline Mapping System (NPMS)
- Emergency Response Guidebook (ERG) – updated and expanded pipeline pages
- Pipelines and Informed Planning Alliance (PIPA)
- Call Before You Dig – 811
- Technical Assistance Grants (TAG) program
- Community Assistance and Technical Services (CATS)
- Stakeholder Communications Website
- *Pipeline Emergencies* training curriculum



Free Online First Responder Training;

- Pipeline Emergencies Second Edition
- The National Association of State Fire Marshals (NASFM), working with a cooperative agreement from the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration (PHMSA), unveiled an updated and customized second edition of the award-winning Pipeline Emergencies training curriculum.
- [Click this link for more information on free online first responder training. http://www.pipelineemergencies.com/](http://www.pipelineemergencies.com/)













Communication is Essential

- The most important aspects of pipeline emergency preparedness and response are communication, cooperation and coordination between pipeline operators and emergency responders
- There is no substitute for establishing positive working relationships ***before emergencies occur***



Public Awareness Regulations for Pipeline Companies

- Federal regulations require pipeline operators to communicate with emergency responders in communities traversed by pipelines
- Pipeline operators are required to communicate the following information to emergency responders:
 - Location of transmission pipelines and how to get detailed information regarding those pipelines;
 - Name of the pipeline operator and the emergency contact information for each pipeline;
 - Information about the products carried/their hazards;
 - Location of emergency response plans with respect to the subject pipeline;



Public Awareness Regulations...

- How to contact the pipeline operator regarding questions, concerns or an emergency;
- How to safely respond to a pipeline emergency;
- An overview of what operators need to do to prevent accidents and mitigate the consequences of accidents when they occur; and
- How to contact the pipeline operator with questions or comments about public safety, additional overview information on Integrity Management Programs to protect High Consequence Areas under their jurisdiction, land use practices, emergency preparedness or other matters.



Emergency Responder Responsibilities

- **Emergency responders have the responsibility to:**
 - **Know and understand pipeline risks in their jurisdictions**
 - **Ensure that they have prepared response plans in cooperation with pipeline operators**



5 Things Every Fire Chief (Department) Should Know About Pipeline Incidents

- **1] Locations of Pipelines in the Area.**
- **2] Who Operates Local Pipelines. (NPMS)**
- **3] What's Inside.**
- **4] Shutoff-Valve Locations.**
- **5] The Worse-Case Scenario. School?**



Damage Prevention Initiatives

- **PHMSA's 811 Campaign**
- **Characterization Tool and state damage prevention law summary**
- **State Damage Prevention Grants**
- **Enforcement Rule**
- **Other damage prevention efforts**



Damage Prevention



DOT/PHMSA and 811: Background

- **DOT and 811....**
 - **Instrumental in working with FCC to secure 811**
 - **Funding to CGA for original campaign**
 - **2010 – present: letters to each state Governor, State Agency Chiefs, Pipeline Safety Program Managers, and National Trade Associations encouraging support of Safe Digging Month, web messages, blogs, Congressional resolutions, presentations**



DOT 811 Campaign

- **Secretary LaHood supports the 811 message**
 - ***PHMSA is a safety organization; 811 is a critical safety message***
- **CGA 2010 Awareness Survey results showed room for growth in 811 campaign, DOT should help in this effort**
- **New resources (i.e. funding) dedicated to ramping up DOT support of 811**
- **Approach: Campaign must incorporate a strong safety message, be considered a DOT campaign but complement CGA campaign and use appropriate CGA materials**



811 Campaign Elements

- **Production, distribution and measurement of Public Service Announcement**
 - **Avoid a “Grimm” Situation: Call Before You Dig**
http://youtu.be/db_BtTdrWrl
- **Event to announce the PSA, other support such as social media postings, YouTube video, etc.**
- **Internal: 811 Promise, monthly 811 messages on web sites, posters in HQ buildings, Secretary blogs, etc.**
- **Partnerships: identifying potential partners to raise awareness**
 - **emergency responder organizations, FFA, etc.**



Characterizing State Damage Prevention Programs

- **Characterization Tool**
 - PHMSA has documented implementation of the nine elements of effective damage prevention programs at the state level
- **State damage prevention laws and regulations**
 - PHMSA has documented what state damage prevention laws and regulations require of damage prevention stakeholders



State Damage Prevention Grants

- **Since 2008, we have awarded over \$6 million to 30 states**
- **SDP grants are available to state authorities designated by governor as eligible recipients**
- **Grants to help states align with one or more of 9 elements**
- **Competitive**
- **\$1.5 annual budget**
- **\$100,000 maximum per state**
- **2012 awards are done**



Pipeline Damage Prevention Programs NPRM

- **Title: “Pipeline Damage Prevention Programs”**
- **Docket No. PHMSA-2009-0192, www.regulations.gov**
- **PHMSA video on the NPRM:**
 - **<http://www.phmsa.dot.gov/pipeline/regs>**
- **Comment period closed July 9, 2012**
- **Workshop on Exemptions March 14, 2013**
- **Report to Congress on Exemptions**
- **Final rule by end of 2013?**



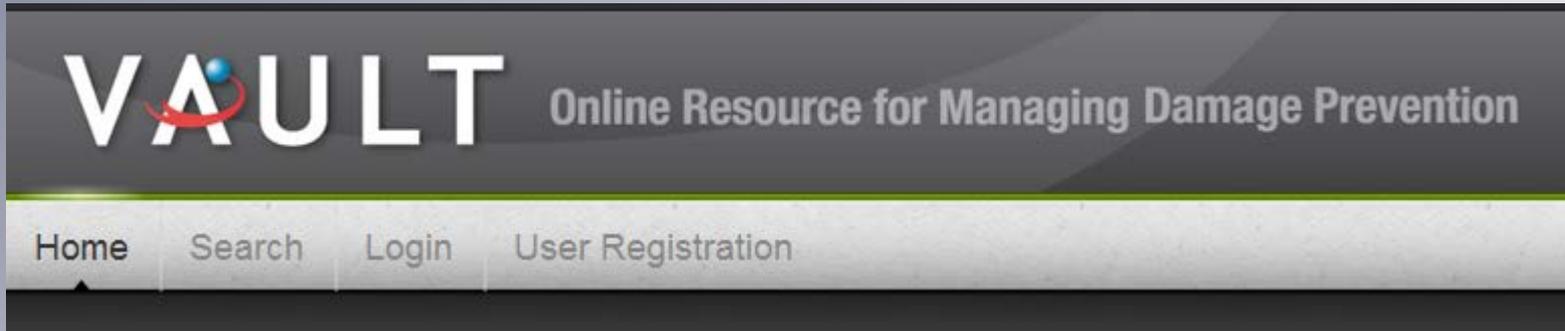
EXEMPTIONS

- **Tough Subject**
- **Doesn't Matter**

**“You can be just as dead right as
dead wrong”**



CGA-VAULT



- <http://cgavault.com/>



VAULT

Online Resource for Managing Damage Prevention

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CGA VAULT

The Common Ground Alliance, CGA, VAULT is an online damage prevention technology information source that serves as a tool to easily locate and review technologies by technology category, CGA best practice, related root causes, and stakeholder group.

VAULT is used to find technologies that help reduce damage to underground utility facilities. VAULT provides practical information about each technology type (locating and detection, encroachment monitoring, excavation, etc.) such as equipment capability, company representative, and contact information. It serves as a useful reference source to stakeholders and contains an overview of the different technologies with general operating principles. It is designed to:

- Provide a comprehensive and easy to use cross referenced directory of technologies,
- Associate specific technology solutions to applicable Best Practices,
- Identify the major CGA stakeholders who might use each technology solution, and
- Associate specific technology solutions to applicable Root Causes in the DIRT report.

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CONSTRUCTION 2013

MICHIGAN, INDIANA, ILLINOIS

ILLINOIS, MISSOURI, KANSAS

ILLINOIS

INDIANA, OHIO,

NORTH DAKOTA

NEBRASKA, SOUTH DAKOTA



HS



Pipe and coating damaged during loading, stacking and lifting. - 195.206, 195.108, 195.110

Pipe not protected from excessive external forces, dents gouges etc. - 195.206, 195.108, 195.110

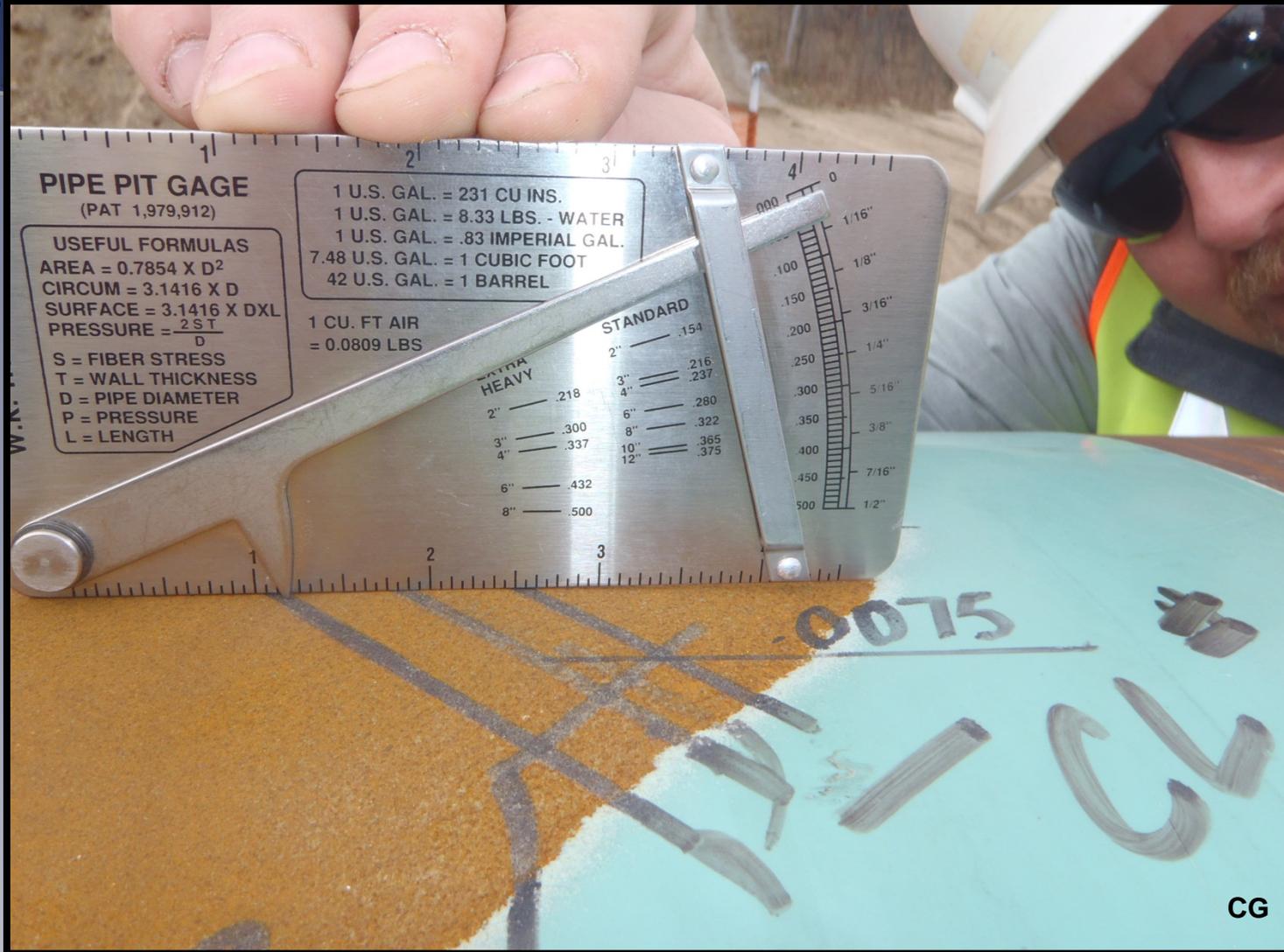
Pipe and coating not inspected for damage - 195.206

HS



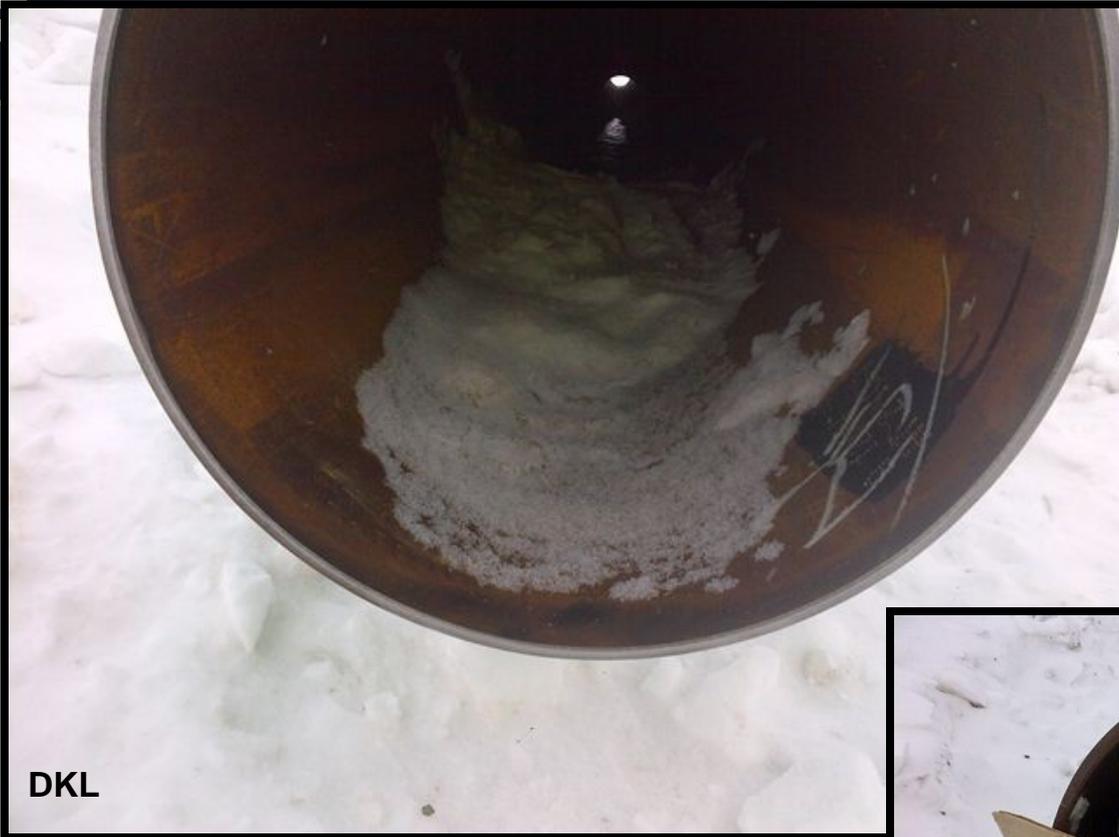
POSSIBLE DAMAGED PIPE?

– NOVEMBER 2012



MILL MARKS

Pipe body not free of pipe defects -
195.112 (a) (b), 195.206



DKL



Weld area not protected from rain, wind, dust, etc. - 195.202, 195.214, 195.222

No END CAPS

WELDERS MELTING SNOW WITH TORCH
AND WELDING WHILE WATER POURING OUT
OF WELD



DKL

JANUARY 2013

FEBRUARY 2013



CG



Incorrect pre-heat or interpass
Temp or no protection from weather
195.202, 195.214, 195.222

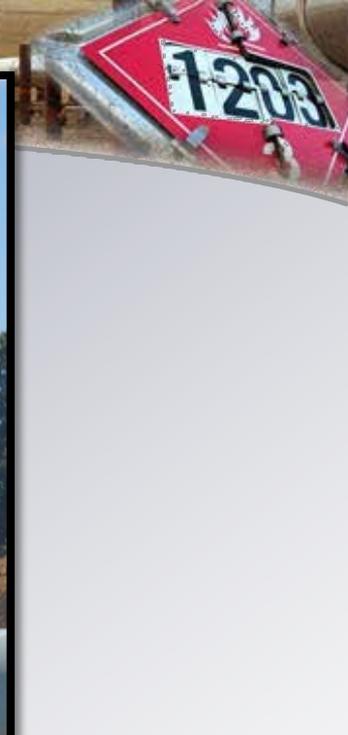
WELD NOT PREHEATED
CRACKING IS OCCURRING IN THE
GIRTH WELD DUE TO IMPROPER
PREHEATING.



KTS



DITCHING AND EXCAVATING



PIPE NOT PROTECTED DURING DITCHING/EXCAVATION

SEPTEMBER 2012



HS



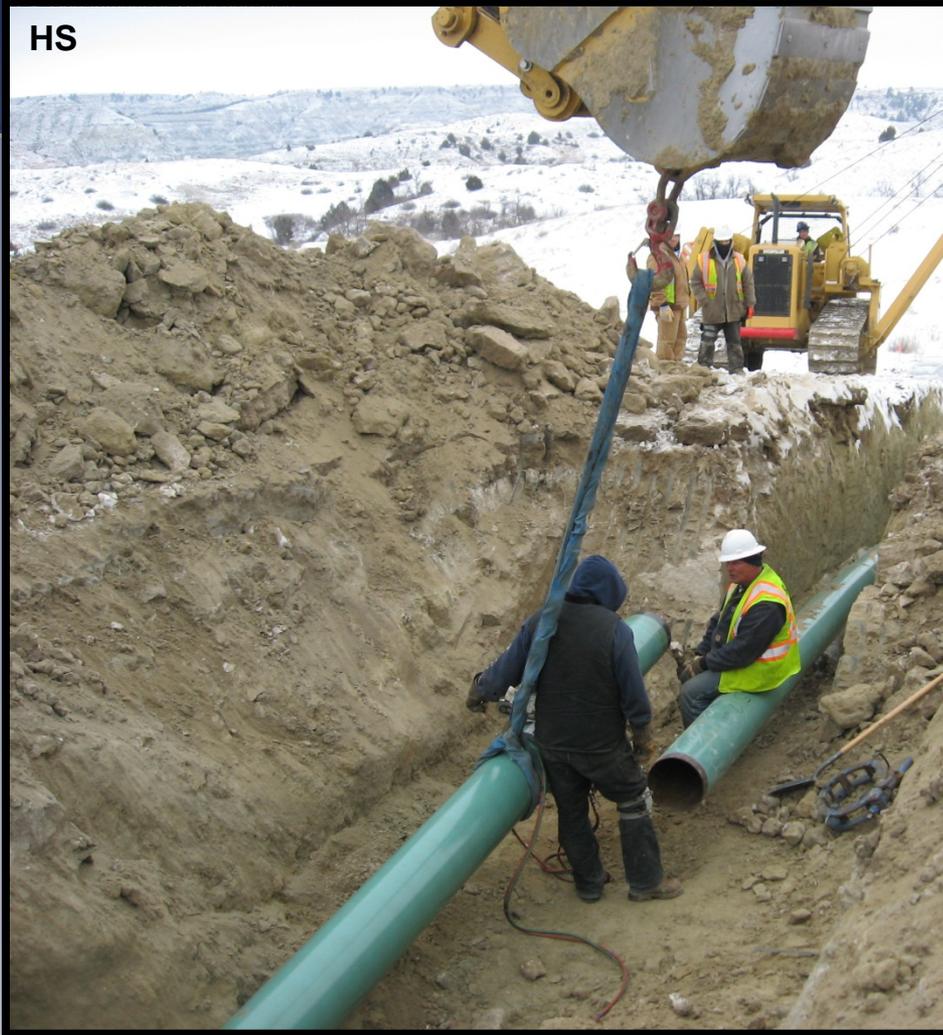
Pipe not checked for ripples out of tolerance – 195.202, 195.212

RIPPLES DURING BENDING

MAY BE CAUSED BY NOT USING INTERNAL MANDREL OR GOING TO FAST



HS



HS

Face preparation,
ovality check and
line up inadequate. -
195.202, 195.214,
195.222

External forces not
limited during line-up
- 195.202, 195.214

FORCED TIE-INS

THIS TIE-IN WOULD HAVE BEEN FORCED IF PHMSA WAS NOT PRESENT ACCORDING TO THE WELDER.

JANUARY 2013



A BETTER ALIGNMENT METHOD?



195.202, 195.214,
195.222

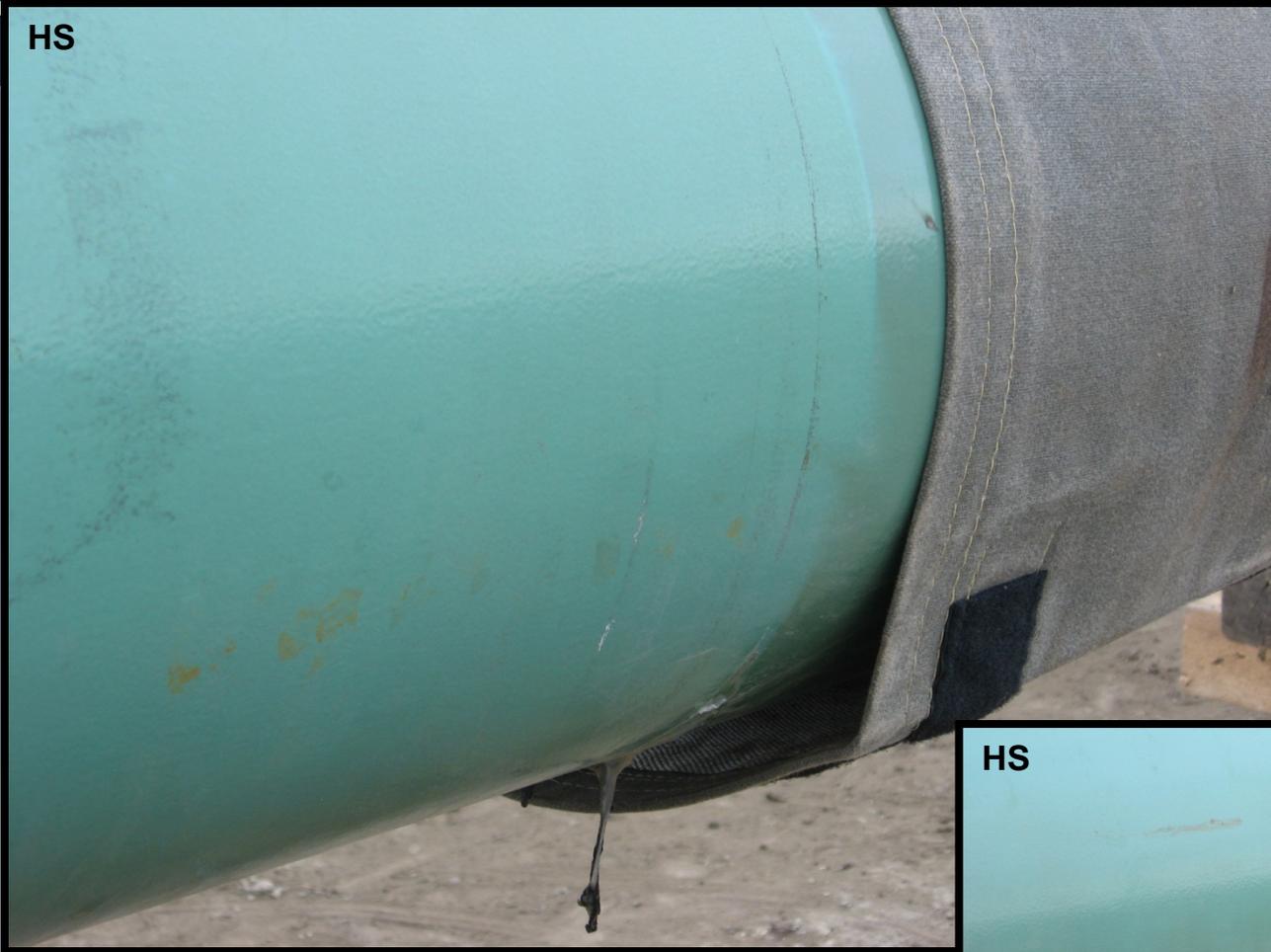
ARC BURNS

THE INSPECTOR DETERMINED ONLY THE COATING WAS
BURNED AND ACCEPTED THIS.

JANUARY 2013



HS



Not correct pre-heat or
interpass Temp -
protection from weather -
195.202, 195.214,
195.222

WELD BLANKET OVER WELD NOT TIGHT
NOT FOLLOWING PROCEDURES

HS



NOVEMBER 2012



Field Repair



HS



KTS

Factory Repair

195.202, 195.206

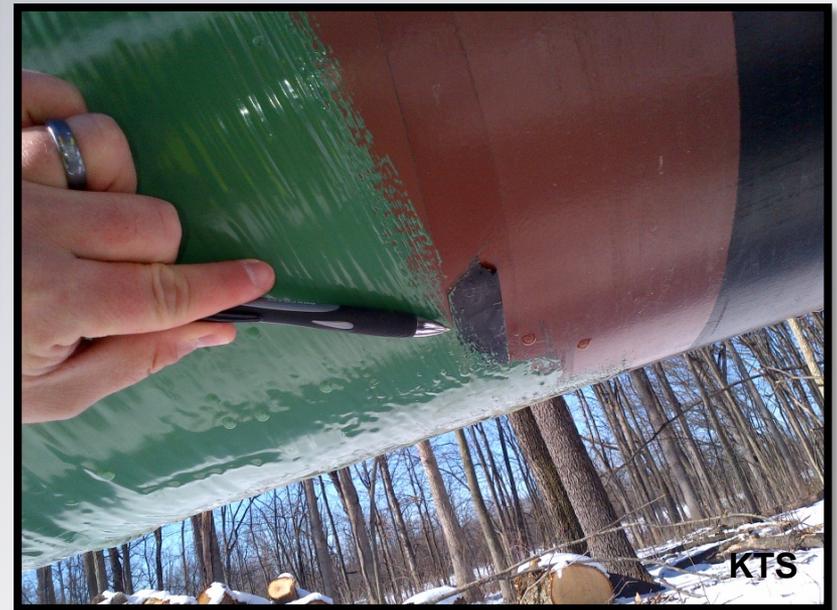


HS

Field Repair

PATCH STICK NOT BONDED
NOT FOLLOWING PROCEDURES

NOVEMBER 2012



ELECTRICAL TAPE UNDER COATING PROCEDURES NOT FOLLOWED AND INADEQUATE INSPECTION

SEPTEMBER 2012

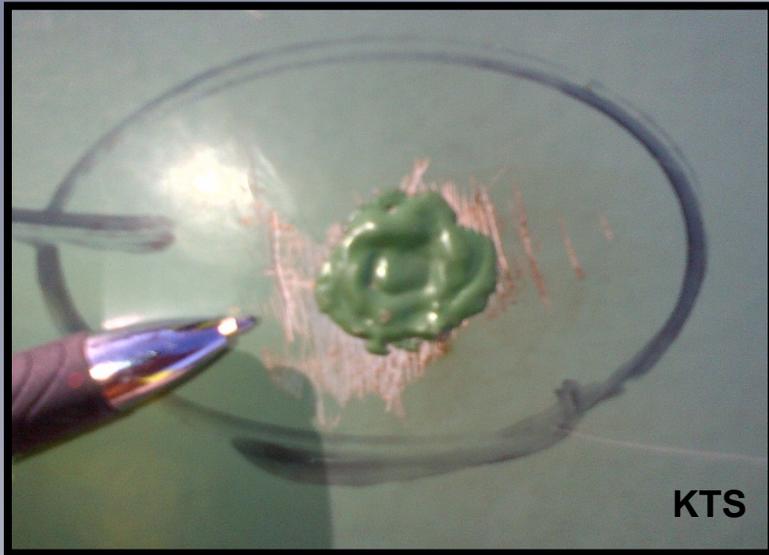
FEBRUARY 2013

Inadequately clean the pipe before jeeeping –
195.202, 195.206



Not following manufacturer's instructions –
195.202, 195.204, 195.206

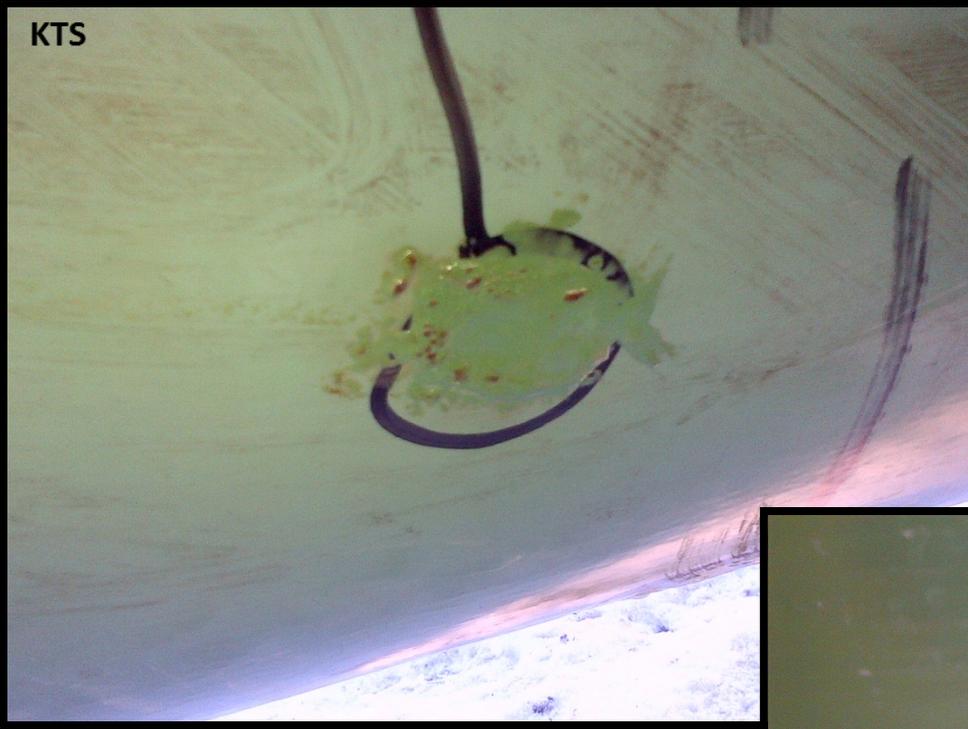
Training of inspectors and contractors is
inadequate. – 195.204



DEEP GOUGES IN COATING PROCEDURES NOT FOLLOWED AND INADEQUATE INSPECTION

FEBRUARY 2013

KTS



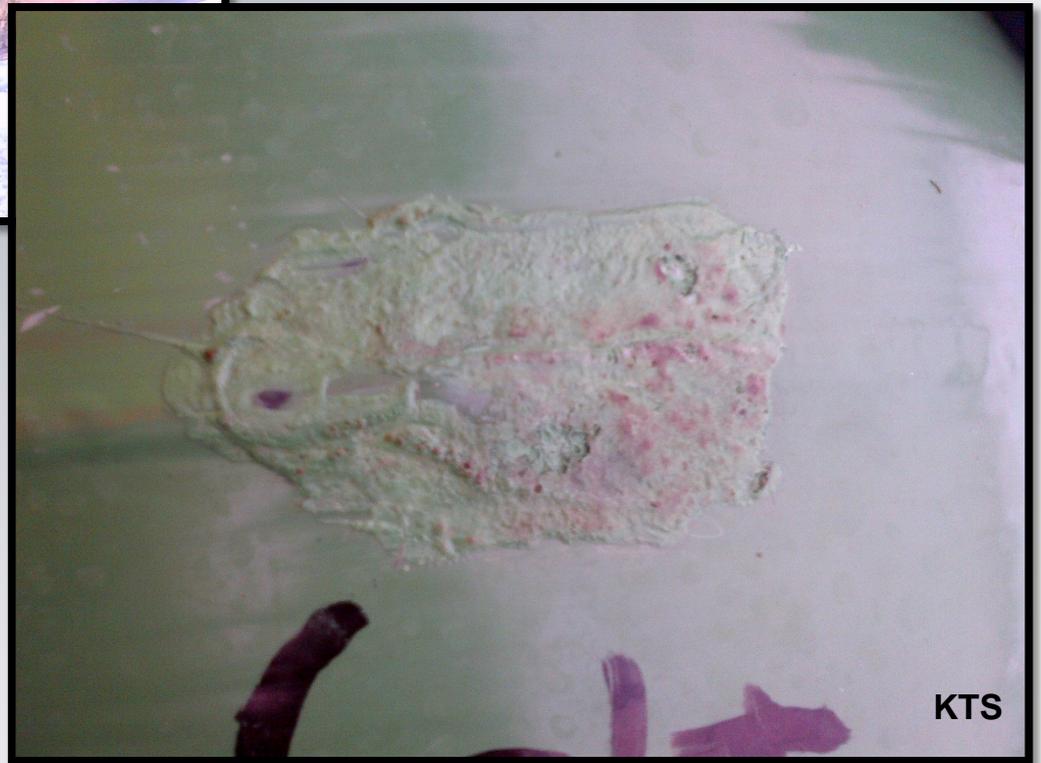
Not following manufacturer's instructions –
195.202, 195.204, 195.206

Training of inspectors and contractors is
inadequate. – 195.204

BURNED AND BLISTERED COATING

**PROCEDURES NOT FOLLOWED AND
INADEQUATE INSPECTION**

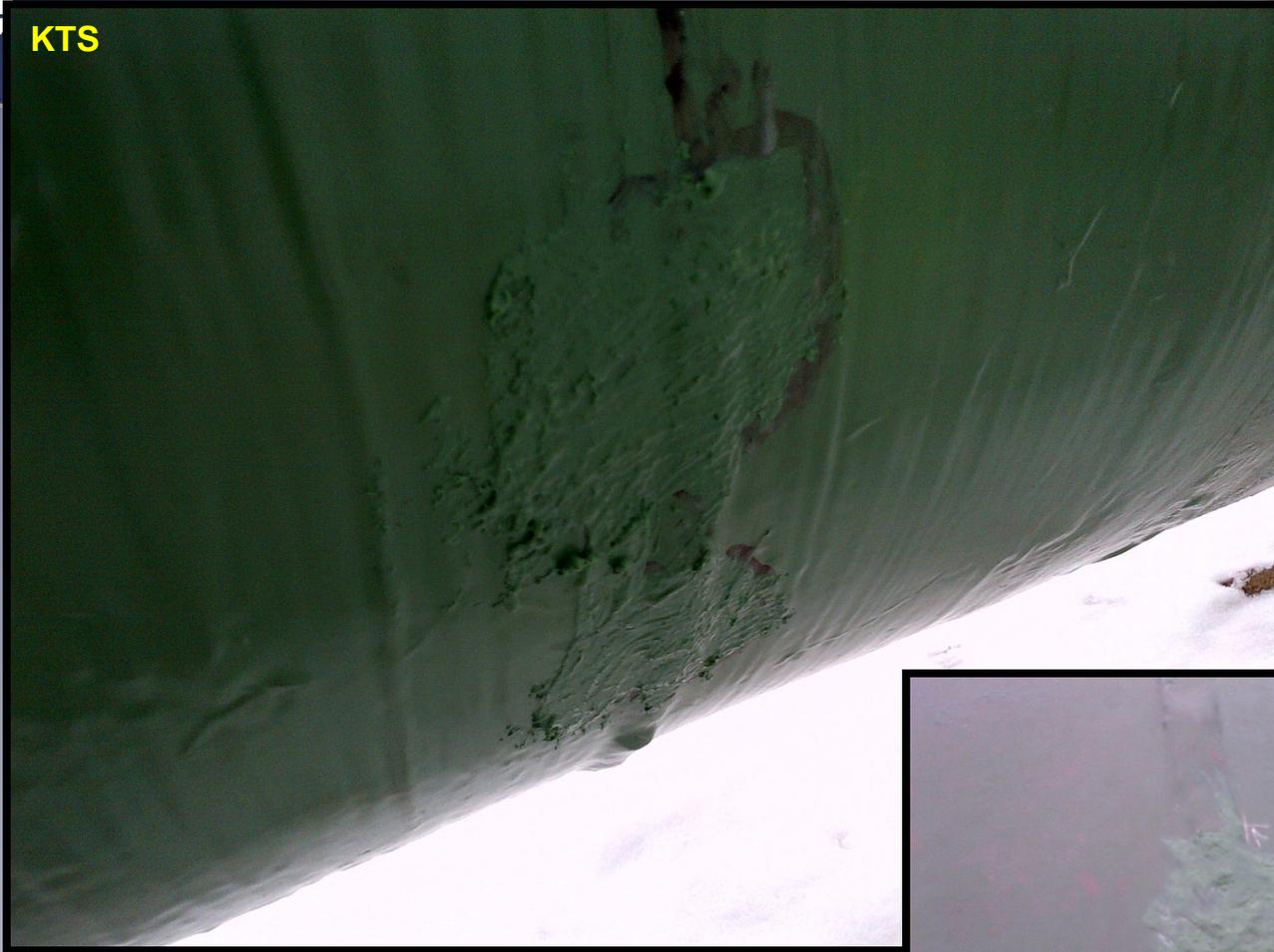
FEBRUARY 2013



KTS



KTS

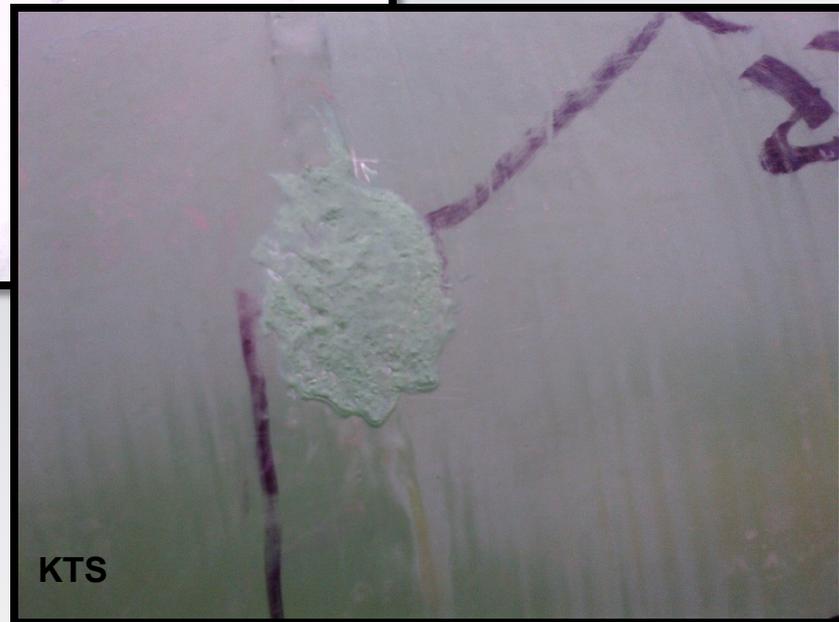


Not following
manufacturer's instructions
- 195.202, 195.204,
195.206

Training of inspectors
inadequate. – 195.204

TWO PART APPLIED COLD PROCEDURES NOT FOLLOWED AND INADEQUATE INSPECTION

FEBRUARY 2013



KTS



DRY FILM THICKNESS FOUND LESS THAN SPECIFICATIONS

PROCEDURES NOT FOLLOWED AND INADEQUATE INSPECTION

FEBRUARY 2013

Not following manufacturer's instructions – 195.202, 195.204, 195.206

Training of inspectors and contractors is inadequate. – 195.204



KTS



195.202, 195.206



COATING DAMAGED BEFORE FULLY CURED

INADEQUATE INSPECTION – PULLED THROUGH ROLLERS

FEBRUARY 2013



HS

TWO PART

NOT FOLLOWING MANUFACTURERS SPECIFICATIONS

NOVEMBER 2012

Not following manufacturer's instructions – 195.202, 195.204, 195.206

Training of inspectors and contractors is inadequate. – 195.204





195.202, 195.206

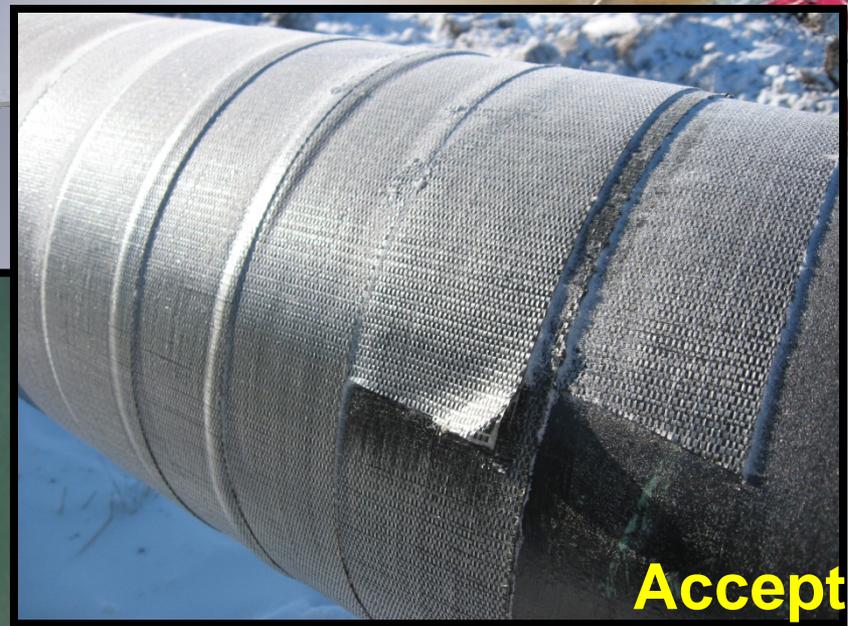
**Not
Accepted**



HS

**RD6 COATING TAPE DISBONDED
NOT FOLLOWING PROCEDURES**

JANUARY 2013



Accepted

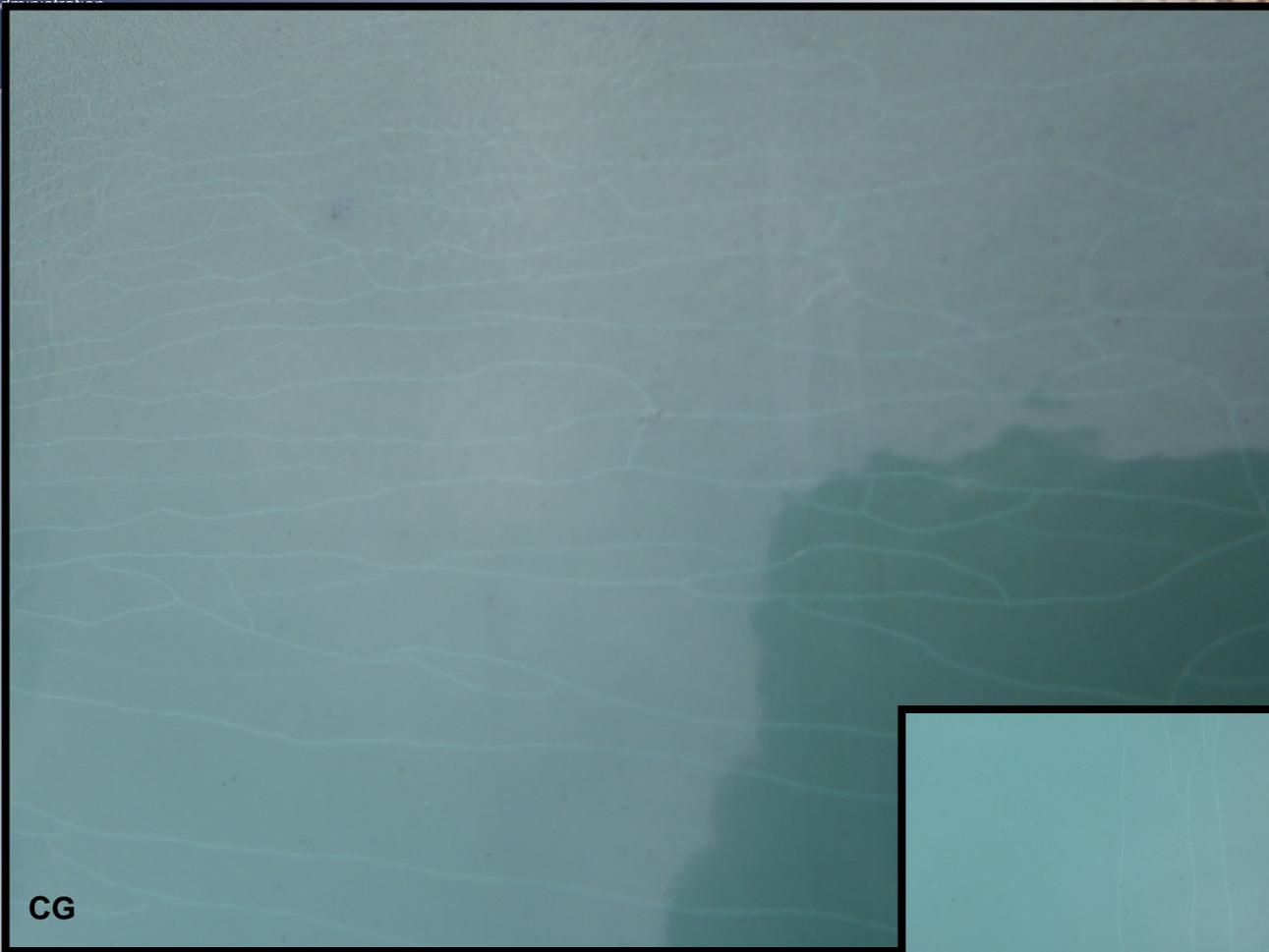


HS

Accepted



195.202, 195.206



CRACKED FBE GIRTH WELD COATING DID NOT CURE PROPERLY

FEBRUARY 2013



COATING NOT MIXED PROPERLY TWO-PART SP-2888

Improper mixing of two-part. Color not uniform - 195.202, 195.206



195.202, 195.206

VERIFIED BY HARDNESS TEST



TWO PART JEEP REPAIR
NOT CURING PROPERLY DUE TO
SUBSTRATE
COOLING BELOW 50 DEGREES BEFORE
CURE

JANUARY 2013

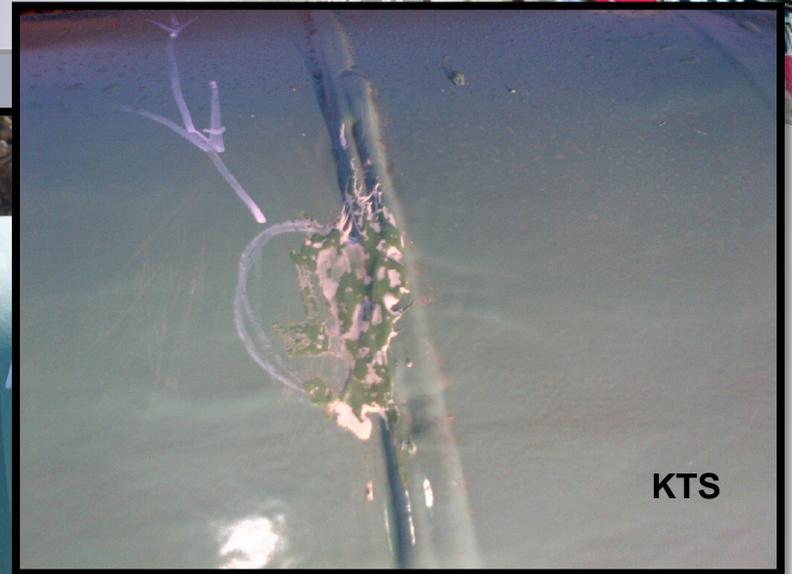
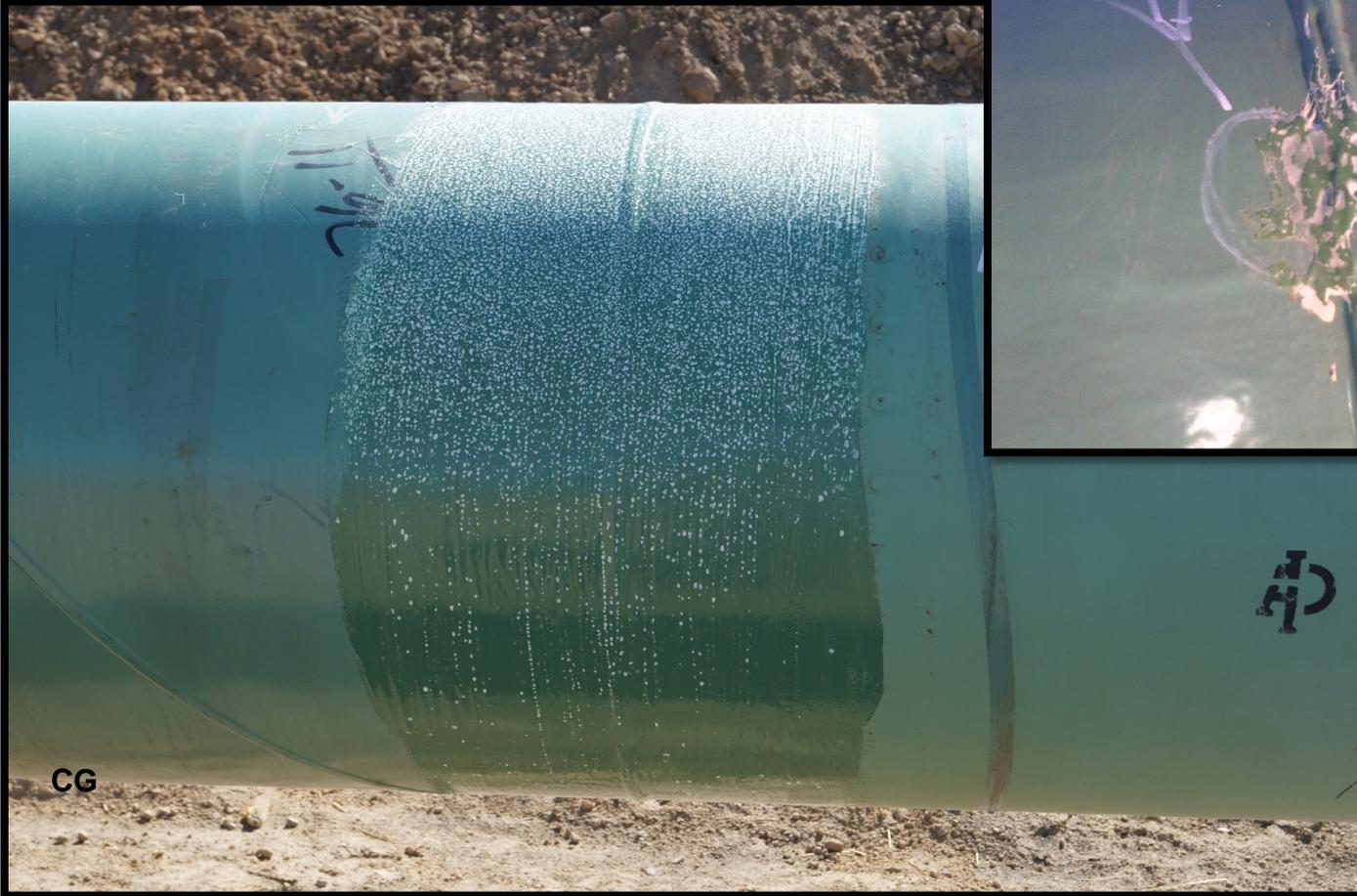


GB



COATING REPAIR WITH NO CLEANING PREPARATION

195.202, 195.206



195.202, 195.206

COATINGS BECAME WET BEFORE CURED

THESE WERE BOTH ACCEPTABLE

OCTOBER 2012



HS

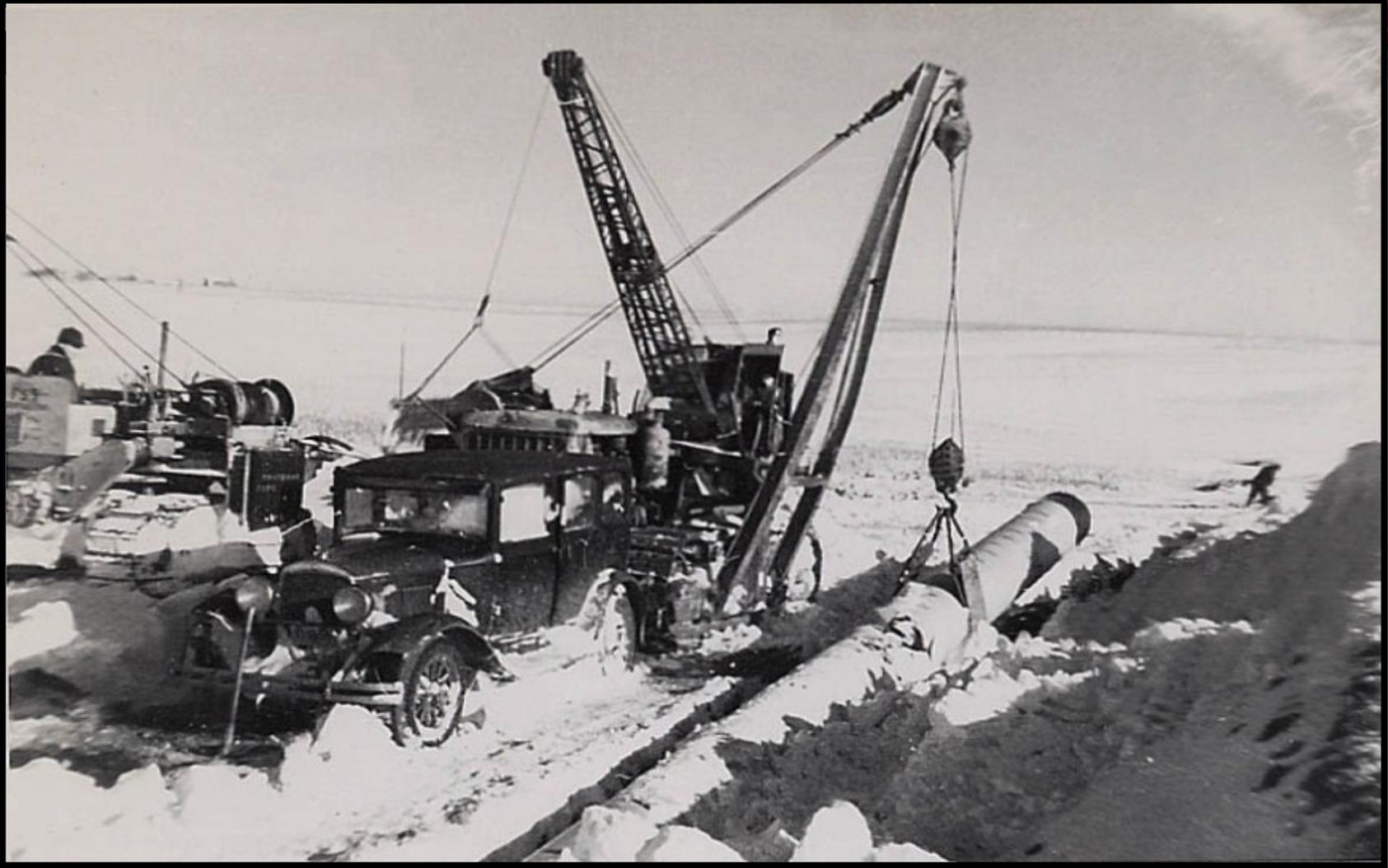
↑ PIPE LOWERED ONTO SNOW

DITCHES FILLING UP WITH SNOW →



HS

Not proper support and flow of the backfill under pipe to provide adequate support.
195.202, 195.206,
195.252



APPARENTLY THIS IS NOT A NEW ISSUE!



LOWERING – DON'T BE THE GUY IN THE DITCH
THE END



Thank You

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and

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