

**STANLEY**<sup>®</sup>

Inspection

# NexRay: Expanding Capabilities In Real Time Radiography

Mark Jay

Advanced NDT Manager



# NeXray

- Current Radiographic Inspection involves either
  - Radioactive material on the outside of the pipe
  - X-ray Crawler inside of the pipe
  - Film/Chemistry
  - RTR up to 42" O.D. Mid Wall Thickness





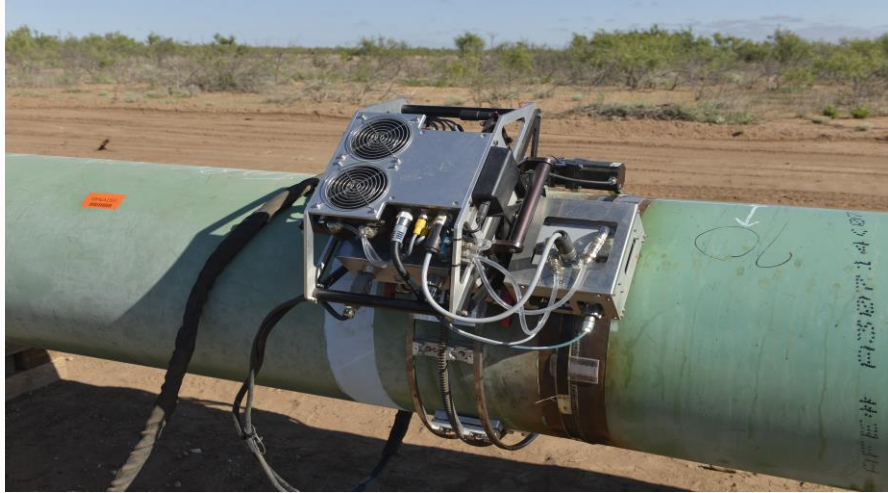
# NeXray

- Pipeline construction industry lacks a real-time radiography solution for large diameter thick wall applications ( 42-48" OD, + 0.750" WT)
- Girth welds for large diameter thick wall applications are currently inspected using conventional film radiography, which has significant disadvantages compared to real-time radiography:
  - *Higher cycle time increases project cost*
  - *A larger radiation exposure zone poses threat to health and safety of personnel on the ROW*
  - *Environmentally unfriendly chemicals are used to develop film*
  - *Inability to detect fine cracks*
  - *Difficulty storing, maintaining, and sharing non-digital scan images*



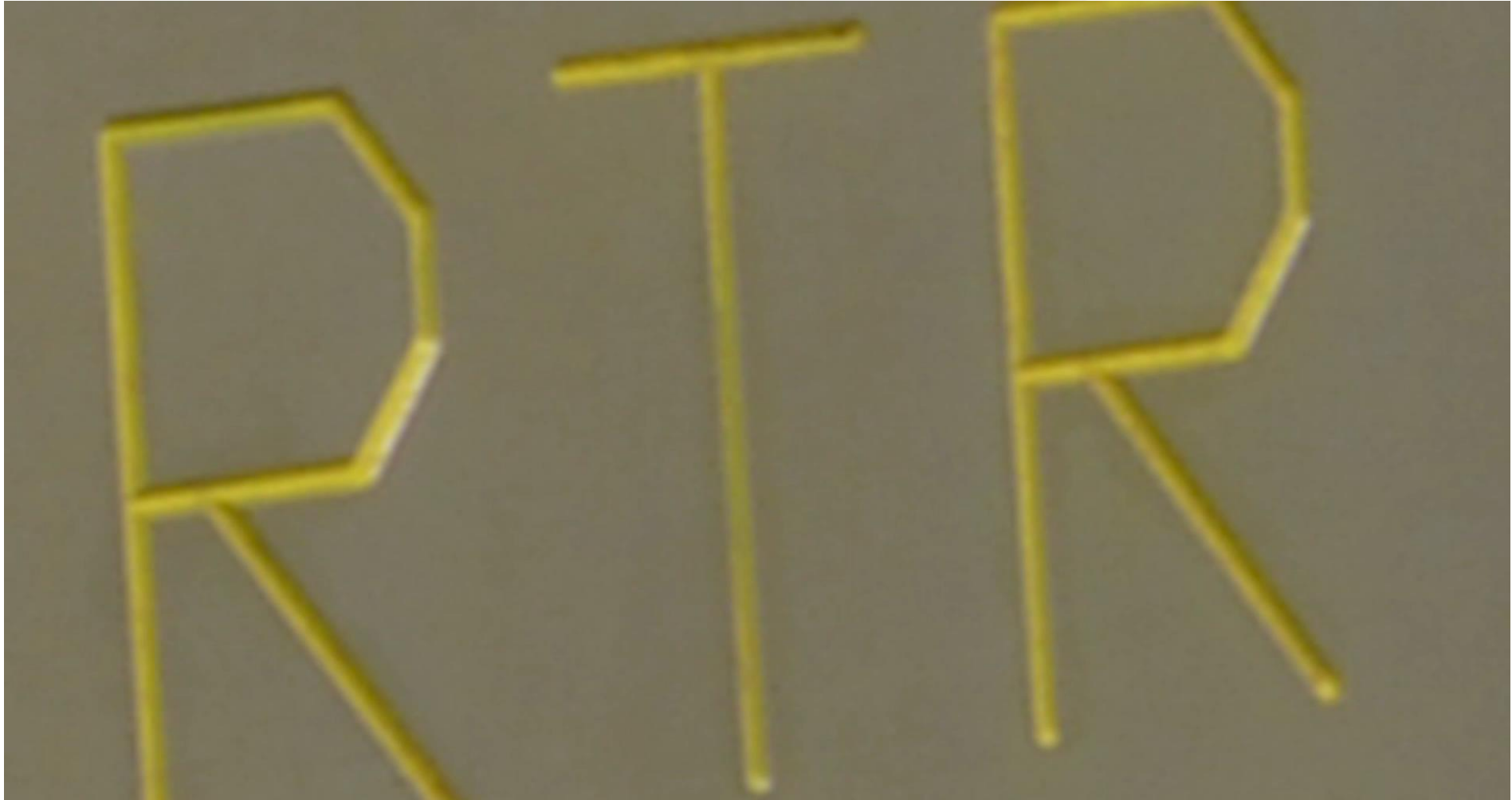


# NeXray





# NeXray





# NeXray

- Advantages

- Safety

- No Gamma Sources
    - No Chemicals / Film
    - Reduced Radiation Exposure

- Speed

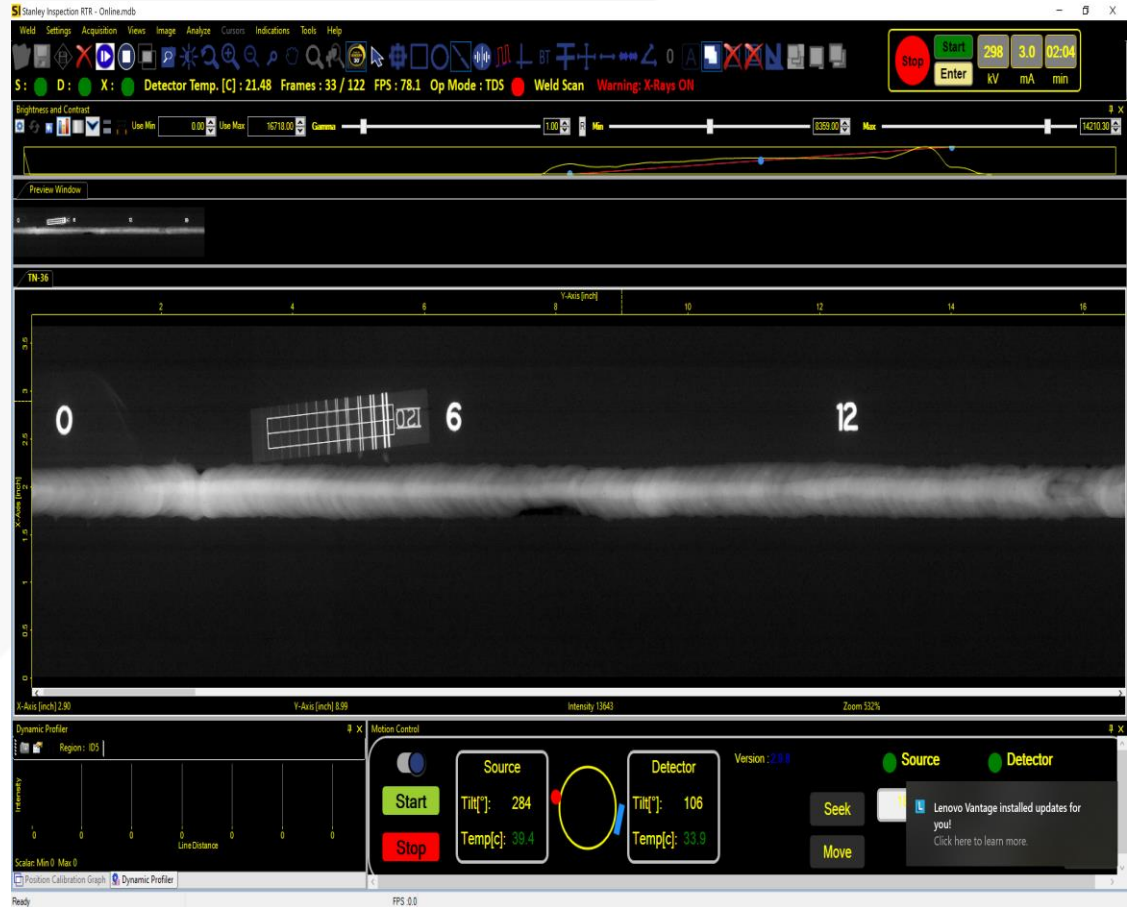
- Quality & Repeatability

- Aided Interpretation

- Cost Savings

- Archiving

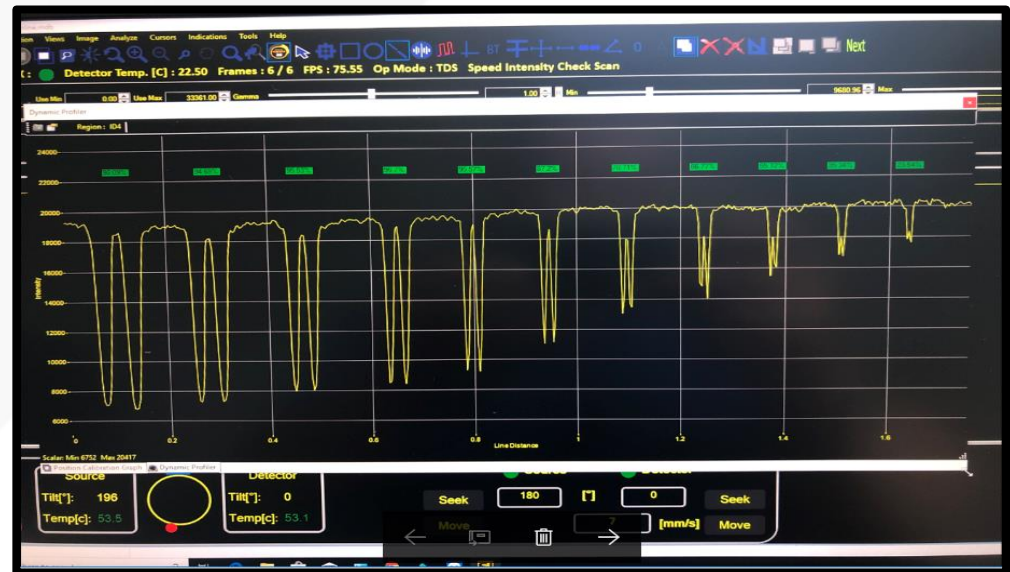
- Up to 48" x 1.00" Pipe





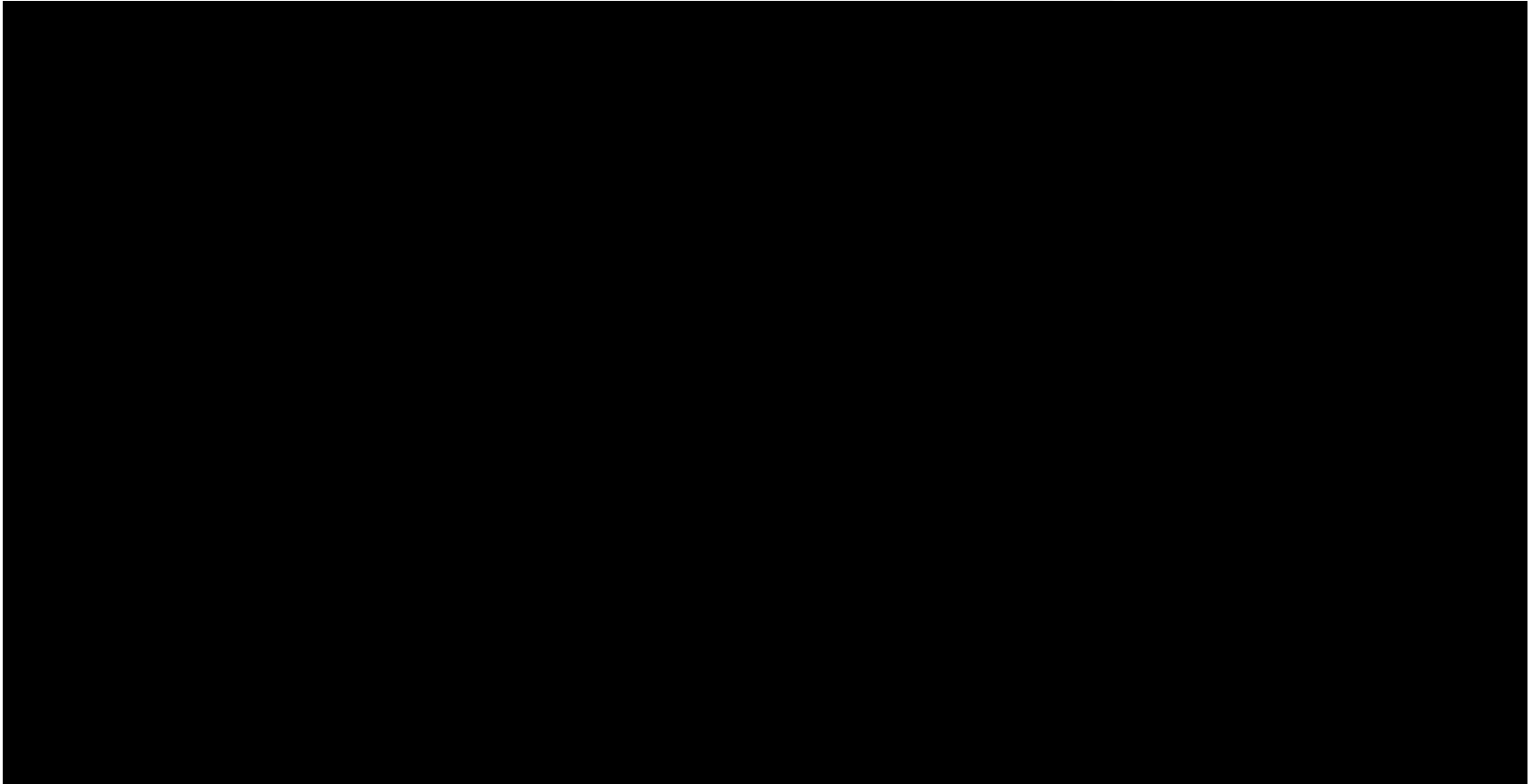
# Client Qualifications

- Exxon (Only NDE Company Currently Qualified)
- Kinder Morgan
- Aspen Midstream
- Energy Transfer
- Enterprise
- TC Energy – Canada
- ATCO – Canada
- Pembina Pipeline – Canada





# NeXray







# NeXray

# Q & A

# THANK YOU.

