



National Pipeline Mapping System Data Security

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Development of NPMS security policy

- Prior to 9-11, NPMS was online for all to view
- As a result of 9-11 NPMS was taken offline until a better understanding could be achieved of potential security issues
- In 2004, TSA Pipeline Security worked with RSPA/OPS staff to determine what information should be shared and what should be restricted
- In 2014, TSA Pipeline Security has been working with PHMSA/OPS staff to determine which of the new datasets should be public and what should be restricted



Current data security procedures

- All applicants for PIMMA passwords or NPMS data undergo identity verification; recipients of raw data must submit a signed letter agreeing to abide by PHMSA's security policy
- Rarely, qualified users have inadvertently released NPMS maps or data. PHMSA has worked with our legal team to remove the data as quickly as possible and to enact sanctions when appropriate
- FOIA exemption 7(F) is cited when data or maps are requested by the media or other unqualified users



Alerts, reviews, and certifications

- NPMS servers are automatically monitored for suspicious activity: no hacking attempts have occurred
- NPMS systems undergo a C&A procedure annually; the full certification is renewed every three years
- Audit logs are provided on a monthly basis to track compliance



New data elements

- PHMSA and DHS/TSA are working together to appropriately categorize the new data elements and write policy to protect them
- New data elements may be SSI, for government officials only, or (rarely) viewable on the Public Viewer
- Questions being addressed include
 - Ensuring PHMSA has an SSI-compliant environment for data users in HQ, field offices, and contractor offices
 - Which requestors will have the potential to receive SSI data and how they will prove they have an SSI-compliant environment
 - How contractor staff (such as sys admins) will be vetted



Potentially SSI

- Average daily throughput
- Highest percent operating SMYS
- MAOP/MOP
- HCA segment or “could affect” HCA segment
- Special permit segment



Potentially available to public

- Commodity detail (e.g. light sweet crude)
- Offshore gas gathering line (yes/no)
- Onshore or offshore?

All attributes not mentioned are likely to be available to government officials and pipeline operators only, according to the user's jurisdiction.

Type of pipe material, pipe joining method, seam type, year of original construction, yes/no piggable, and class location are being evaluated further.