## Comparison of Pipeline Performance Tracking System (PPTS) and Office of Pipeline Safety RSPA 7000-1 (OPS) Reporting Forms, June 2002

<table>
<thead>
<tr>
<th>Item Description</th>
<th>PPTS Part</th>
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<th>Comparison Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator ID</td>
<td>Beginning</td>
<td>API-assigned User Name</td>
<td>Part A</td>
<td>Operator's OPS 5-digit ID Pipeline owner’s OPS 5-digit ID if operator not owner Name and address of Operator</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>DS</td>
<td>Date of release</td>
<td>Part A</td>
<td>Time and date of the accident Hr/month/day/year</td>
<td>OPS also asks for time</td>
</tr>
<tr>
<td>Inter/Intra</td>
<td>DS</td>
<td>Is pipeline or facility: ☐ interstate ☐ intrastate</td>
<td>Part C</td>
<td>Is pipeline interstate? ☐ Yes ☐ No</td>
<td>Inter/Intra v Y/N; PPTS asks question for all, OPS only for Long Form</td>
</tr>
<tr>
<td>Gathering</td>
<td>DS</td>
<td>Is pipeline/facility a gathering line (acc. to function not Part 195 defn.) Under Part 195 or state equiv., is it ☐ regulated ☐ unregulated</td>
<td></td>
<td></td>
<td>No OPS equiv.; OPS doesn't regulate rural gathering lines (&lt;8&quot; Ndiam)</td>
</tr>
<tr>
<td>DOT 7000-1</td>
<td>DS</td>
<td>Was or will a DOT 7000-1 report be submitted? ☐ Yes ☐ No ☐ Don't know</td>
<td></td>
<td></td>
<td>No OPS equiv. necessary.</td>
</tr>
<tr>
<td>State Report</td>
<td>DS</td>
<td>Was or will a telephonic or written release report be made to any State agency? ☐ Yes ☐ No ☐ Don't know</td>
<td></td>
<td></td>
<td>OPS: no equiv.</td>
</tr>
<tr>
<td>NRC Report</td>
<td>DS</td>
<td>Was a telephonic report made to the National Response Center for this incident? ☐ Yes ☐ No ☐ Don’t know</td>
<td>Part A</td>
<td>Telephone Report NRC Report Number month/day/year</td>
<td>Y/N v report reference number and date</td>
</tr>
<tr>
<td>Spill</td>
<td></td>
<td></td>
<td>Part A</td>
<td>Commodity Spilled ☐ Yes ☐ No</td>
<td>PPTS only covers releases. Incidents can be reportable to OPS for other reasons, e.g. injury</td>
</tr>
<tr>
<td>Commodity Type</td>
<td>DS</td>
<td>Transported commodity released (check one): HVL’s etc./CO2, N2 etc./Petroleum products/Crude oil</td>
<td>Part A</td>
<td>Classification of commodity spilled: HVL’s etc./CO2 etc./Petroleum products/Crude oil</td>
<td>Commodity class detail identical except PPTS lists N2 as well as CO2 as example for its Commodity Class 2.</td>
</tr>
<tr>
<td>Commodity</td>
<td></td>
<td></td>
<td>Part A</td>
<td>Name of commodity spilled</td>
<td>PPTS only requires</td>
</tr>
</tbody>
</table>

Note: See definitions and explanatory notes on page 15. Colored cells highlight substantive differences between PPTS and OPS.

Prepared by Cheryl J. Trench, Allegro Energy Group 212-787-6923
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<tr>
<td>12. Company Property</td>
<td>SM, CO</td>
<td>Was the area affected by the release contained on the company-controlled facility (excluding right-of-way)?</td>
<td>Part C2</td>
<td>Location of system involved (check all that apply)</td>
<td>Company property info: PPTS collects for all incidents; OPS only for larger spills. OPS also asks about right-of-way.</td>
</tr>
<tr>
<td>13. HCA</td>
<td>DS</td>
<td>Did this release reach any &quot;high consequence areas&quot; (HCA's) (49 CFR Part 195.452)?</td>
<td>Part C2</td>
<td>Location of system involved (check all that apply)</td>
<td>PPTS collects info on HCA for all incidents, and requires more detail. OPS asks only for larger spills.</td>
</tr>
<tr>
<td>14. Size range</td>
<td>DS</td>
<td>Approximate size range of release:</td>
<td>Part C2</td>
<td>Location of system involved (check all that apply)</td>
<td>OPS requires specific volume for each release; for spills &lt;5 barrels, PPTS relies on size range alone and directs user to Part SM (Short Form).</td>
</tr>
<tr>
<td>15. Amounts Released and Recovered</td>
<td>DS</td>
<td>Estimated size of release:</td>
<td>Part A</td>
<td>Estimated amount of commodity involved:</td>
<td>PPTS only requires specific volumes for spills of ≥5 barrels; all units are barrels. OPS requires reporting in gallons for spills &lt;1 barrel.</td>
</tr>
<tr>
<td>16. Additional Recovery</td>
<td>DS</td>
<td>Is recovery of additional commodity anticipated?</td>
<td>Part C</td>
<td>Line segment name/ID</td>
<td>No specific OPS question, but Supplemental or Final report to OPS could provide actual.</td>
</tr>
<tr>
<td>17. Segment</td>
<td></td>
<td></td>
<td>Part C</td>
<td>Accident on Federal land other than Outer Continental Shelf</td>
<td>No PPTS equiv. OPS: all larger spills.</td>
</tr>
<tr>
<td>20. Onshore</td>
<td>DS</td>
<td>State</td>
<td>Part A</td>
<td>Location of accident:</td>
<td>Onshore spills only. PPTS for</td>
</tr>
</tbody>
</table>
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<tbody>
<tr>
<td>Location</td>
<td></td>
<td></td>
<td>Lat.; Long.; City; County or Parish; State; Mile post/valve station or survey station no.</td>
<td></td>
<td>larger spills only; less detail than OPS</td>
</tr>
<tr>
<td>21. Onshore Non-rural</td>
<td>DS, SM</td>
<td>Did release occur in “non-rural” area (Part 195 definition)?</td>
<td></td>
<td></td>
<td>No OPS equiv.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes ☐ No ☐ Don’t know</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22. Offshore</td>
<td>DS</td>
<td>Federal OCS waters ☐ State waters ☐ Offshore area (without block number e.g. Ship Shoal)</td>
<td>Part C</td>
<td>Area ___________ Block # _______ State / / / / or Outer Continental Shelf ☐</td>
<td>Offshore spills only. PPTS for larger spills only; does not require Block #. OPS requires detailed form for all spills to water.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Approximate water depth: ___ feet</td>
<td></td>
</tr>
<tr>
<td>23. Accident Area</td>
<td></td>
<td></td>
<td>Part E</td>
<td>Area of accident</td>
<td>OPS: all larger spills PPTS: no direct equiv., but some detail in Part FA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>○ Open ditch ☐ Under pavement ☐ Above ground ☐ Underground ☐ Under water ☐ Inside/under building ☐ Other ☐</td>
<td></td>
</tr>
<tr>
<td>24. Fire</td>
<td>CQ, SM</td>
<td>Was there a fire?</td>
<td>Part F</td>
<td>Product ignited</td>
<td>N/Y v Y/N. PPTS covers any fire linked to incident; OPS limits to fire involving the transported product. If fire/explosion linked to spill &lt;5 gallons, PPTS user switched back to Long Form. Separately, may report fire or explosion to OPS (Part H4) or fire to PPTS (Part TP, Pop-up #3) as the primary cause of a Third Party accident</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes ☐ No ☐</td>
<td></td>
<td>Yes ☐ No</td>
<td></td>
</tr>
<tr>
<td>25. Explosion</td>
<td>CQ, SM</td>
<td>Was there an explosion?</td>
<td>Part F</td>
<td>Explosion</td>
<td>N/Y v Y/N For spill &lt;5 gallons (Part SM), PPTS combines with prior question on fire, and participant is redirected to Long Form. See also note in previous section on Third Party accidents.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes ☐ No ☐</td>
<td></td>
<td>Yes ☐ No</td>
<td></td>
</tr>
<tr>
<td>26. Death/Injury</td>
<td>CQ, SM</td>
<td>Any deaths or injuries?</td>
<td></td>
<td></td>
<td>If death/injury linked to spill &lt;5 gallons, PPTS user switched back to Long Form. Part CQ is a portal to Part PB in PPTS.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes ☐ No ☐</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item Description</td>
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<tr>
<td>-----------------</td>
<td>-----------</td>
<td>---------------</td>
<td>-------------</td>
<td>--------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>27. Numbers dead/injured</td>
<td>PB</td>
<td>Fatalities and/or injuries: Number of operator employees/Number of contractor employees working for the operator/Number of others/Total _______ killed _______ injured</td>
<td>Part F</td>
<td>Same as PPTS (but with slightly different wording)</td>
<td>All reportable incidents with a death or injury.</td>
</tr>
<tr>
<td>28. Evacuation</td>
<td>CQ</td>
<td>Public evacuation necessary? No ☐ Yes ☐ (below)</td>
<td>Part F</td>
<td>☐ Evacuation (general public only) ☐ / / / people</td>
<td>Only OPS requires numbers of people evacuated</td>
</tr>
<tr>
<td>29. Evacuation type</td>
<td>PB</td>
<td>Public evacuation undertaken (check all that apply): ☐ Precautionary evacuation undertaken by company ☐ Evacuation required by or initiated by a public official</td>
<td>Part F</td>
<td>Reason for Evacuation: Same choices as PPTS (but with slightly different wording)</td>
<td></td>
</tr>
<tr>
<td>30. Water Impact</td>
<td>CQ, SM</td>
<td>Type of water impacted (check all that apply): ☐ None ☐ Surface water, Was intake shut? ☐ Groundwater, Was well shut? ☐ Drinking water for human cons. ☐ Unusually environmentally sensitive drinking water source</td>
<td>Part F</td>
<td>Water Contamination: ☐ Yes ☐ No (If Yes, provide the following) Amount in water _______ barrels Ocean/Seawater ☐ No ☐ Yes Surface ☐ No ☐ Yes Groundwater ☐ No ☐ Yes Drinking water ☐ No ☐ Yes If Yes, ☐ Private well ☐ Public water intake</td>
<td>For small releases (Part SM), PPTS asks this for onshore spills only.</td>
</tr>
<tr>
<td>31. Ecological Impact</td>
<td>CQ</td>
<td>Type of ecology impacted (check all that apply): ☐ None ☐ Vegetation/plant life ☐ Fish/aquatic life (excl livestock) ☐ Birds (excl. livestock) ☐ Other wildlife (excl. livestock) ☐ Livestock</td>
<td>Part F</td>
<td>Wildlife Impact: Fish/aquatic ☐ Yes ☐ No Birds ☐ Yes ☐ No Terrestrial ☐ Yes ☐ No</td>
<td>All larger spills OPS is limited to wildlife impacts. PPTS also includes impacts to vegetation and livestock.</td>
</tr>
<tr>
<td>32. Soil Contamination</td>
<td></td>
<td></td>
<td>Part F</td>
<td>Soil Contamination ☐ Yes ☐ No If Yes, estimated number of cubic yards: _________</td>
<td>No PPTS equivalent, even though has subsequent question on soil remediation.</td>
</tr>
<tr>
<td>33. Remediation</td>
<td>CQ</td>
<td>Remediation activities undertaken related to the following (check all that apply): None needed: Vegetation /plant life; Soil; Surface water; Ground-water;</td>
<td>Part F</td>
<td>Anticipated remediation ☐ Yes ☐ No If Yes, check all that apply: ☐ Surface water ☐ Groundwater ☐ Soil ☐ Vegetation ☐ Wildlife</td>
<td>PPTS refers to work done and OPS to work anticipated. PPTS breakout is more detailed.</td>
</tr>
</tbody>
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<tbody>
<tr>
<td>Drinking water; Fish/aquatic life; Birds; Other wildlife; Livestock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34. Other Environmental</td>
<td>CQ</td>
<td>Were other environmental projects performed?</td>
<td></td>
<td></td>
<td>PPTS: larger spills No OPS equiv</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ No ☐ Yes ☐ Unknown</td>
<td>☐ Yes Is it:</td>
<td>☐ Underway ☐ Anticipated ☐ Planned</td>
<td></td>
</tr>
<tr>
<td>35. Endangered Species</td>
<td>CQ</td>
<td>Were threatened or endangered species or plants injured (animal, plant, fish, or bird)?</td>
<td></td>
<td></td>
<td>PPTS: larger spills No OPS equiv</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ No ☐ Yes ☐ Don't know</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36. Damage Assessment</td>
<td>CQ</td>
<td>Has a Natural Resources Damage Assessment been performed?</td>
<td></td>
<td></td>
<td>N/Y v Y/N Larger spills only. Only PPTS specifies NRDA and asks about corrective action</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ No ☐ Yes ☐ Don't know</td>
<td>☐ Yes ☐ No</td>
<td>Long term impact assessment performed:</td>
<td></td>
</tr>
<tr>
<td>37. Property Damage</td>
<td>CQ</td>
<td>Public or commercial property disrupted or damaged?</td>
<td></td>
<td></td>
<td>No direct equiv. in OPS, but OPS Part A asks for estimated cost for damage to public/private property.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ No ☐ Yes ☐ Don't know</td>
<td>☐ Yes, check all that apply:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>38. Financial Losses</td>
<td></td>
<td></td>
<td>Part A</td>
<td>Losses <em>(Estimated)</em></td>
<td>No PPTS equiv. OPS requires for all reportable spills</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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<tr>
<td>39. Facility Involved</td>
<td>SM, FA</td>
<td>Part of system involved (check one)</td>
<td>Part C</td>
<td>Part of system involved in accident</td>
<td>OPS: larger spills only. PPTS for both Short and Long Forms, but in different locations.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Aboveground storage tank</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Cavern/ belowground storage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Pump station/terminal/tankfarm piping &amp; equipment, including sumps</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Offshore pipeline, including valve site</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Onshore pipeline, including platforms.....</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40. Facility Detail</td>
<td>FA</td>
<td>Part of system involved (check one main category &amp; one subcategory)</td>
<td></td>
<td></td>
<td>For larger spills, PPTS requires additional detail on facility where spill happened. No OPS equiv.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Each system category in Q.39 expanded with 2-4 subcategories e.g.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Aboveground storage tank</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Low pressure ☐ pressurized</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41. SMYS</td>
<td>FA</td>
<td>Does facility operate above 20% SMYS?</td>
<td>Part D</td>
<td>SMYS / / / / / /</td>
<td>PPTS: Large spills at pump station/terminal/ tank farm or pipeline. PPTS asks specifics only for pipe (see below). OPS: Wants specifics, not range, for all (see below)</td>
</tr>
<tr>
<td>42. SMYS level</td>
<td>PI</td>
<td>SMYS (psi) ☐ Don't know</td>
<td></td>
<td></td>
<td>PPTS: If spill covered by Q.41 is at pipe or pipe seam, needs specific SMYS</td>
</tr>
<tr>
<td>43. Type of Failed Item</td>
<td>FA</td>
<td>Item involved (check one):</td>
<td>Part C</td>
<td>Failure occurred on</td>
<td>Differences in item lists are numerous. PPTS: Large spills involving pump station/terminal/ tank farm or pipeline. OPS: All large spills</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Pipe/ Pipe Seam ☐ Weld</td>
<td></td>
<td>☐ Body of Pipe ☐ Pipe Seam</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Valve ☐ Pump</td>
<td></td>
<td>☐ Scraper Trap ☐ Pump</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Meter Prover ☐ Scraper Trap</td>
<td></td>
<td>☐ Sump ☐ Joint</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Sump/ Separator ☐ Weld Fitting</td>
<td></td>
<td>☐ Component ☐ Valve</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Repair Fitting</td>
<td></td>
<td>☐ Metering Facility ☐ Repair Sleeve</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Threaded or Other Fitting</td>
<td></td>
<td>☐ Welded Fitting ☐ Bolted Fitting</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Other</td>
<td></td>
<td>☐ Girth Weld ☐ Other (specify)</td>
<td></td>
</tr>
<tr>
<td>44. Seam Failure</td>
<td>PI</td>
<td>Was this a seam-related failure?</td>
<td></td>
<td></td>
<td>PPTS: Large spills involving pipe or pipe seam. 'Pipe seam' separate failure category for OPS in Q.43</td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Yes ☐ No ☐ Don't know</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<tr>
<td>------------------------</td>
<td>-----------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Failed Item Install Date</td>
<td>FA</td>
<td>Year item was installed (actual or estimated if necessary) _________</td>
<td>Part C</td>
<td>Year the component that failed was installed: yyyy</td>
<td>PPTS: Large spills at pump station/terminal/ tank farm or pipeline.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OPS: All large spills</td>
</tr>
<tr>
<td>Pipe Details</td>
<td>PI</td>
<td>Nominal pipe size __ inches</td>
<td>Part D</td>
<td>Nominal pipe size _____ in.</td>
<td>PPTS: Large spill involving pipe or pipe seam.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wall thickness __ inches</td>
<td></td>
<td>Wall thickness _____ in.</td>
<td>OPS: All large spills</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Type of pipe (check one):</td>
<td></td>
<td>Specification __________</td>
<td>For pipe type, PPTS has 13 options; OPS has open response.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(13 options)</td>
<td></td>
<td>Seam type __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Manufacturer __</td>
<td></td>
<td>Valve type __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Year of manufacture ____</td>
<td></td>
<td>Manufactured by ______ in year yyyy</td>
<td></td>
</tr>
<tr>
<td>Pipe Failure</td>
<td>PI, WL</td>
<td>For Pipe/ Pipe Seam: Nature of failure (check one):</td>
<td>Part C</td>
<td>Type of leak or rupture</td>
<td>PPTS: Large spill from pipe/pipe seam or where girth weld, fabrication or repair weld is involved</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Pinhole leak or crack</td>
<td></td>
<td>□ Leak:</td>
<td>OPS: Any large spill where system failure on pipeline</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Rupture</td>
<td></td>
<td>□ Pinhole Connection Fail</td>
<td>Only OPS asks for size detail.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Puncture</td>
<td></td>
<td>□ Rupture:</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>□ Other</td>
<td></td>
<td>□ Circumferential – Separation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For Girth, Fabrication or repair weld: Nature of failure (check one):</td>
<td></td>
<td>□ Longitudinal Tear/ Crack (inches) ___</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Pinhole leak or crack</td>
<td></td>
<td>□ Partial separation of weldment</td>
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<tr>
<td></td>
<td></td>
<td>□ Total separation of weldment</td>
<td></td>
<td>□ Other</td>
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<tr>
<td></td>
<td></td>
<td>□ Partial separation of weldment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Release Cause</td>
<td>CA, TK, SM</td>
<td>Primary cause of release (check one):</td>
<td>Part A</td>
<td>Causes for small spills only (5 gallons to under 5 barrels)</td>
<td>PPTS uses same list of first-level causes for both small and large spills, then looks for second-level causes for larger spills.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ 3rd party damage (current/ past)</td>
<td></td>
<td>Matches PPTS list except Third Party Damage split into Excavation and Other Outside Force</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Corrosion</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>□ Pipe matl/seam/weld, repair weld</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>□ Equip malfn/failure non-pipe</td>
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<tr>
<td></td>
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<td>□ Operator error/other incorrect op.</td>
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<td></td>
<td></td>
<td>□ Natural forces</td>
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<td></td>
<td></td>
<td>□ Other</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>CD</td>
<td>Max. op. pressure of failed comp. (psig):_______ □ Don’t Know</td>
<td>Part C</td>
<td>Max operating pressure (MOP)</td>
<td>OPS: all large spills</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Est. at point/time accident ___PSIG MOP at time accident: ___PSIG</td>
<td></td>
<td></td>
<td>PPTS: large spills at pipeline or pump station/terminal/ tank farm excl. sumps/separators</td>
</tr>
<tr>
<td>Pressure Test</td>
<td>CD</td>
<td>Had there been a pressure test on the system?</td>
<td>Part H</td>
<td>Was part which leaked pressure tested before accident occurred? □ Yes, □ No</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OPS: all large spills caused by material or weld failures.</td>
</tr>
<tr>
<td>Item Description</td>
<td>PPTS Part</td>
<td>PPTS Language</td>
<td>OPS Section</td>
<td>OPS Language</td>
<td>Comparison Notes</td>
</tr>
<tr>
<td>------------------</td>
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</tr>
<tr>
<td>51. Inspection Device</td>
<td>CD</td>
<td>Had an in-line internal inspection device been run at point of failure? □ Yes □ No □ Don’t know</td>
<td>Part C</td>
<td>Is segment configured for internal inspection tools? OYes O No</td>
<td>Both OPS and PPTS for large spills from a pipeline. PPTS: also for spills at a pump station/terminal/ tank farm excl. sumps/separators. OPS allows for infeasible inspection</td>
</tr>
<tr>
<td>Inspection Device (cont’d)</td>
<td></td>
<td>If Yes, specify tools run and year each last run</td>
<td></td>
<td>If Yes, answer following about test) Date: yr/mo/day Medium: Water/Inert Gas/Other Time held at test pressure: ___ hr. Press. at accident point: ___ PSIG</td>
<td>PPTS: all large spills at pipeline or pump station/terminal/ tank farm excl. sumps/separators, regardless of cause. OPS seeks more test detail.</td>
</tr>
<tr>
<td>52. Initial Leak Detection</td>
<td>CD</td>
<td>Was the release initially detected by? (Check one) CPM/SCADA; Remote operator. personnel; Pressure/leak test; Local op personnel/Proc/equip; Air/ground surveillance; Third party; Other</td>
<td>Part G</td>
<td>Identical to PPTS question</td>
<td>OPS: all large spills at pipeline or pump station/terminal/ tank farm excl. sumps/separators</td>
</tr>
<tr>
<td>53. Leak Confirmation</td>
<td>CD</td>
<td>Was the presence of the release confirmed by? (Check one) (Same list as in prior question)</td>
<td></td>
<td></td>
<td>PPTS: large spills at pipeline or pump station/terminal/ tank farm excl. sumps/separators No OPS equiv.</td>
</tr>
<tr>
<td>54. Detection Tool Performance</td>
<td>CD</td>
<td>Did the applied leak detection tools perform as expected? □ Yes □ No □ Don’t know</td>
<td></td>
<td></td>
<td>PPTS: large spills at pipeline or pump station/terminal/ tank farm excl. sumps/separators No OPS equiv.</td>
</tr>
<tr>
<td>55. Leak Duration</td>
<td></td>
<td>Estimated leak duration days ___ hours ___</td>
<td>Part G</td>
<td></td>
<td>OPS: All Large spills No PPTS equiv.</td>
</tr>
<tr>
<td>57. Federal Control</td>
<td>CD</td>
<td>Did the Federal Government take control</td>
<td></td>
<td></td>
<td>PPTS: large spills at pipeline</td>
</tr>
<tr>
<td>Item Description</td>
<td>PPTS Part</td>
<td>PPTS Language</td>
<td>OPS Section</td>
<td>OPS Language</td>
<td>Comparison Notes</td>
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<tr>
<td>58. Isolation (cont'd)</td>
<td>CD</td>
<td></td>
<td></td>
<td></td>
<td>or pump station/terminal/ tank farm excl. sumps/seps No OPS equiv.</td>
</tr>
<tr>
<td>of the response?</td>
<td></td>
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<tr>
<td>☐ Yes ☐ No ☐ Don't know</td>
<td></td>
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<tr>
<td>58. Isolation (cont'd)</td>
<td>CD</td>
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<tr>
<td>Was there an isolation?</td>
<td></td>
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<tr>
<td>☐ Yes ☐ No (if No, skip remainder of section)</td>
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<tr>
<td>Approx. distance between valves closed for initial isolation?</td>
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<tr>
<td>_____ miles ☐ Don't know</td>
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<tr>
<td>How long from release detection/confirmation to initial isolation?</td>
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<tr>
<td>_____ mins ☐ Don't know</td>
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<tr>
<td>Approx. distance between valves closed for final isolation, if needed?</td>
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<tr>
<td>_____ miles ☐ Don't know</td>
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<tr>
<td>How long from release detection/confirmation to final isolation?</td>
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<tr>
<td>_____ mins ☐ Don't know</td>
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<tr>
<td>Type of block valve used for isolation of immediate section:</td>
<td></td>
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<tr>
<td>Upstream/Downstream Manual/Automatic/Remote Control/Check Valve</td>
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<tr>
<td>Length of segment isolated _____ ft</td>
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<tr>
<td>Distance between valves _____ ft</td>
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<tr>
<td>59. Weld Failure</td>
<td>WL</td>
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<tr>
<td>Nature of failure (check one):</td>
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<tr>
<td>☐ Pinhole leak or crack</td>
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<td>☐ Total separation of weldment</td>
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<tr>
<td>☐ Partial separation of weldment</td>
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<tr>
<td>Was this an acetylene weld?</td>
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<td>☐ Yes ☐ No ☐ Don't know</td>
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<tr>
<td>PPTS: large spills &quot;involving a weld, including heat-affected zone&quot; No OPS equiv.</td>
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<tr>
<td>60. AST Release</td>
<td>TK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description of failure (check one):</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Single Bottom System; Double Bottom System; Shell or Head; Overfill/overpressure (Operator error/Equipment malfunction/Other); Appurtenance (Roof drain failure/Other); Damage by Third Party/Operator/Natural Force; Other</td>
<td></td>
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<tr>
<td>Was this a catastrophic failure?</td>
<td></td>
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<tr>
<td>☐ Yes ☐ No ☐ Don't know</td>
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<tr>
<td>PPTS: Large spills from aboveground storage tanks OPS: No equiv.</td>
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<tr>
<td>61. AST Testing</td>
<td>TK</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Tank hydrotested/pressure tested upon construction or major repair? Bottom cathodically protected? internally</td>
<td></td>
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<tr>
<td>PPTS: Large spills from aboveground storage tanks OPS: No direct equiv., but</td>
<td></td>
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</tr>
</tbody>
</table>

Prepared by Cheryl J. Trench, Allegro Energy Group  212-787-6923  9
## Comparison of PPTS and OPS Reporting Forms, June 2002

<table>
<thead>
<tr>
<th>Item Description</th>
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<th>OPS Section</th>
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<th>Comparison Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>lined/coated?</td>
<td></td>
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</tr>
<tr>
<td>Year most recent API 653 internal tank inspectn. and shell thickness external tank inspectn. (or equiv)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>pressure test question in section on material and weld failure, H5</td>
</tr>
<tr>
<td>62. Type Third Party Damage</td>
<td>TP</td>
<td>Failure occurred due to (check one): □ 3rd party excavation/constn etc. at time □ Prior 3rd party excavation/constn. □ Other (vandalism, 3rd party vehicle contact with facility, other intentional/unintentional acts)</td>
<td>Part H3/H4</td>
<td>Excavation Damage □ Operator [not Third Party] □ Third Party Other Outside Force Damage □ Rupture of Prev. Damaged Pipe + fire/expl, vehicle, vandalism</td>
<td>PPTS has three broad categories (Excavation at the time, Prior excavation, other). OPS has two broad categories (Excavation and Other), with Rupture of Prev. Dmgd Pipe a subcategory in Other.</td>
</tr>
<tr>
<td>63. Third Party Excavation</td>
<td>TP</td>
<td>Damaging party or activity (check one): Pipeline operator; Underground facility operator (7 subclasses); Agriculture; Homeowner; Resid/comml dev; Road; Railroad; Waterway/reservoir; Offshore; Inland waterway; Other</td>
<td>Part H3</td>
<td>Excavator group: □ General Public □ Government □ Other (specify)</td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>PPTS: large spills due 3rd party activity at time failure. OPS: large spills due 3rd party excavation. Only OPS identifies broad excavator group: Gen'l Public/ Gov't / Excavator. Excavation types not identical, but will largely allow comparison.</td>
</tr>
<tr>
<td>64. Depth of Cover</td>
<td>TP, TP</td>
<td>If on land, depth cover at damage site: _____ inches □ Don't know</td>
<td>Part E</td>
<td>Depth of cover: _____ inches</td>
<td>PPTS: large spills due 3rd party activity (Q for both concurrent and prior damage) OPS: all large spills</td>
</tr>
<tr>
<td>65. Type of Excavation</td>
<td>TP</td>
<td>Did damage result from (check one): □ Drilling, boring, augering □ Blasting, tunnelling, mining □ Trenching, grading, backfilling □ Other</td>
<td>Part H3</td>
<td>Excavation was: □ Open Trench □ Sub-strata (boring, directional drilling, etc...)</td>
<td>PPTS: large spills due 3rd party at time accident. OPS: large spills due 3rd party excavation. PPTS 4 poss, OPS 2</td>
</tr>
<tr>
<td>66. One-Call</td>
<td>TP</td>
<td>Was OneCall system utilized? □ None Available □ Yes □ No Pipeline oper’s response to One-Call notifcn. (check all that apply): Marked centerline; On-site during excvn; Excv. line for 3rd party; Unaware excvn. (Patrol frequency: Weekly/Bi-</td>
<td>Part H3</td>
<td>Excavation was ongoing (2month) □ Yes mm/dd/yyyy □ No Prior notification of excavation? □ Yes mm/dd/yyyy □ No Notification received from: □ One Call System □ Excavator □ Contractor □ Landowner</td>
<td></td>
</tr>
</tbody>
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<tr>
<td>weekly/Other) Pipeline ROW permanently marked and visible to 3rd party at site? □ Yes □ No □ Don't know Job-specific excvn. plan in effect? □ Yes □ No □ Don't know</td>
<td></td>
<td>Was pipeline marked as result of location request for excavation? □ No □ Yes (Temporary (how?) Permanent; Accurate/Inaccurate; within required time)</td>
<td></td>
<td></td>
<td>additional detail about response to One-Call and about patrol frequency [if unaware excavation].</td>
</tr>
<tr>
<td>Cause for 3rd Party damage at time failure</td>
<td>TP</td>
<td>Apparent primary cause of damage (check one): □ Failure of 3rd party to: Use One-Call; Wait; Respect pipeline directions/proc; Protect facilities □ Failure of pipeline operator to respond/properly mark pipeline □ Other</td>
<td></td>
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</tr>
<tr>
<td>Cause Prior 3rd Party Damage</td>
<td>TP</td>
<td>Poss cause damage (check one): □ Onshore constr/excvn equip. □ Offshore/inland waterway activity Approx. water depth: ___ ft □ Other □ No clues to cause</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evidence Of Prior Damage</td>
<td>TP</td>
<td>Evidence of damage (check one): Coating; Dent/buckle w/o metal loss; Gouge/metal loss; Other Posn damage on pipe (check one): Top (10-2 o'clock); Side (8-10 &amp; 2-4 o'clock); Bottom (4-8 o'clock)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Cause Other 3rd Party Damage</td>
<td>TP</td>
<td>Cause 3rd party damage (check one): Vandalism/theft/mischief; Sabotage; Vehicle (not driven by op employee); Other party: Fire Other</td>
<td>Part H4</td>
<td>□ Fire/Explosion: □ Man made □ Natural □ Vehicle unrelated to excavation damaging pipe □ Rupture of Previously Damaged Pipe □ Vandalism</td>
<td>PPTS: large non-work related 3rd party spills OPS: Large spills (sub set of primary cause options) No direct OPS equiv. to PPTS Sabotage; Part H4 is the place to report Rupture of Prev. Dmgd Pipe as a cause in OPS; no add'l detail</td>
</tr>
<tr>
<td>Corrosion Location</td>
<td>CR</td>
<td>Location of corrosion □ External □ Internal</td>
<td>Part H1</td>
<td>□ External Corrosion □ Internal Corrosion</td>
<td>PPTS: large non-AST spills due corrosion OPS: Large spills (sub set of primary cause options)</td>
</tr>
</tbody>
</table>
## Comparison of PPTS and OPS Reporting Forms, June 2002

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<tbody>
<tr>
<td>72. Corrosion Near Prior Damage</td>
<td></td>
<td></td>
<td>Part H1</td>
<td></td>
<td>Pipe previously damaged in area of corrosion? ○ No ○ Yes If yes, time prior to accident: ___years ___months   Unknown □ PPTS: No equiv. OPS: Large spills from pipeline due to corrosion</td>
</tr>
<tr>
<td>73. External Corrosion</td>
<td>CR</td>
<td>Type of corrosion (check one): Galvanic; Microbiologically-induced; Atmospheric; Stress corrosion cracking; Stray current Selective seam; Other</td>
<td>Part H1</td>
<td>Cause of Corrosion Same as PPTS options + “Cathodic Protection Disrupted”</td>
<td>PPTS: large non-AST spills due external corrosion. OPS: Large spills due any corrosion. No “CP Disrupted” question in PPTS.</td>
</tr>
<tr>
<td>74. Cathodic Protection</td>
<td>CR</td>
<td>Facility under cathodic protection? □ Yes □ No □ Don’t know Year CP installed: _______ Close Interval Survey performed? □ Yes □ No □ Don’t know Year of most recent CIS: ___</td>
<td>Part H1</td>
<td>Was corroded part of pipeline under cathodic protection prior to discovering accident? ○ No ○ Yes Year Protection Started yyyy</td>
<td>PPTS: large non-AST spills due external corrosion. OPS: Large spills due any corrosion. No CIS question in OPS.</td>
</tr>
<tr>
<td>75. Coating</td>
<td>CR</td>
<td>Facility externally coated/painted? □ Yes □ No □ Don’t know Type (check one): Coal Tar; Tape; Extruded plastic; Fusion-bonded epoxy; Paint; Other; Unknown Was shielding/tenting/ disbonded coating a factor in this failure? □ Yes □ No □ Don’t know Was damaged coating a factor in this failure? □ Yes □ No □ Don’t know</td>
<td>Part H1</td>
<td>Pipe Coating ○ Bare ○ Coated</td>
<td>PPTS: large non-AST spills due external corrosion. OPS: Large spills due any corrosion. PPTS asks for much more detail on coatings, coating defect and coating failures</td>
</tr>
<tr>
<td>76. Operating Temperature</td>
<td>CR</td>
<td>Was pipeline or equipment at site of failure operating &gt; 100 degrees F? □ Yes □ No □ Don’t know</td>
<td>Part H1</td>
<td>Visual Examination ○ Localized Pitting ○ General Corrosion ○ Other ______</td>
<td>PPTS: large non-AST spills due external corrosion. OPS: no equiv.</td>
</tr>
<tr>
<td>77. Visible Corrosion</td>
<td></td>
<td></td>
<td>Part H1</td>
<td></td>
<td>PPTS: No equiv. OPS: Large spills from pipeline due to corrosion</td>
</tr>
<tr>
<td>78. Road Crossing</td>
<td>CR</td>
<td>Did failure occur within or just outside of a road crossing casing? □ Yes □ No □ Don’t know</td>
<td></td>
<td></td>
<td>PPTS: large non-AST spills due external corrosion. OPS: no equiv.</td>
</tr>
</tbody>
</table>

Prepared by Cheryl J. Trench, Allegro Energy Group 212-787-6923
<table>
<thead>
<tr>
<th>Item Description</th>
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<th>OPS Section</th>
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<th>Comparison Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>79. Internal Corrosion Mitigation</td>
<td>CR</td>
<td>Were Internal corrosion mitigation systems/procedures used, e.g. inhibitors, dewatering pigs run  □ Yes □ No □ Don't know  If yes, continuous since: yyyy</td>
<td></td>
<td></td>
<td>PPTS: large non-AST spills due internal corrosion. OPS: no equiv.</td>
</tr>
<tr>
<td>80. Type of Pipe Failure</td>
<td>PI</td>
<td>Type of pipe (check one): Seamless; Flash welded; Spiral welded SAW; ERW; Butt-welded; Spiral welded ERW; Single SAW; Lap-welded; Plastic/non-metallic; DSAW; Continuous welded; Other; Unknown</td>
<td>Part H5</td>
<td>□ Body of Pipe: Dent; Gouge; Bend; Arc Burn; Other □ Component: Valve; Fitting; Vessel; Extruded Outlet; Other □ Joint: Gasket; O-Ring; Threads; Other</td>
<td></td>
</tr>
<tr>
<td>81. Type of Weld Failure</td>
<td>PI</td>
<td>Failure due to (check one): □ Defective pipe body □ Defective pipe seam □ Defective girth weld □ Defective fabn/repair weld □ Orig constrn/fabn damage/defect □ Pipe transport damage □ Prior third party damage □ Other defective weld or material</td>
<td>Part H5</td>
<td>□ Construction: Poor Work; Procedure not followed; Poor Constrn Procedure. □ Material Was failure due to pipe damage during transport to constrn/fabn site? □ Yes □ No</td>
<td>PPTS: Pipe seam question in Part PI; No PPTS detail for &quot;butt&quot; or &quot;fillet&quot; categories. OPS: Large spills (sub set of primary cause options) Differences in seam choices.</td>
</tr>
<tr>
<td>82. Cause of Pipe or Weld Failure</td>
<td>PW</td>
<td>Other factors; Overpressurization</td>
<td>Part C</td>
<td>Did an overpressurization occur relating to the accident? □ Yes □ No</td>
<td>PPTS: large non-AST spills due pipe/weld failure OPS: Large spills with primary cause pipe/weld failure [Significant differences in structure of questions here]</td>
</tr>
<tr>
<td>83. Other factors; Overpressurization</td>
<td>PW</td>
<td>What other factors do you suspect played a role in the incident? (check all that apply) □ Fatigue crack growth; □ Over-pressurization; □ Ground settling/loss support; □ Other factors; □ None</td>
<td></td>
<td></td>
<td>PPTS: large spills caused by pipe material or weld failure. PPTS also asks about overpressurization for incidents due to Operator Error OPS: all large spills; no detail on fatigue crack growth, etc. [Differences again]</td>
</tr>
</tbody>
</table>
## Comparison of PPTS and OPS Reporting Forms, June 2002

<table>
<thead>
<tr>
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<th>OPS Section</th>
<th>OPS Language</th>
<th>Comparison Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>84. Cause of Equipment Failure</td>
<td>EQ</td>
<td>Failure due to (check one):</td>
<td>Part H6</td>
<td>Malfunction Control/Relief Equip: Control Valve; SCADA; Instrumentation; Communication; Block Valve; Relief Valve; Power failure; Other</td>
<td>PPTS: large non-AST spills caused by equipment failure. OPS: Large spills with primary cause equipment failure. OPS asks for sub-category detail. PPTS defective/loose fitting/tubing has no specific OPS equiv.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Excav or damage to facility/pipeline by operator/subcontractor</td>
<td></td>
<td>○ Inadequate Procedures</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Valve left/placed in wrong posn.</td>
<td></td>
<td>○ Inadequate Safety Practices</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Pipeline/equip overpressured</td>
<td></td>
<td>○ Failure to Follow Procedures</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Motor Vehicle</td>
<td></td>
<td>○ Other _____________</td>
<td></td>
</tr>
<tr>
<td>86. Operator Error - Other</td>
<td>OP</td>
<td>Nature of failure (check one):</td>
<td>Part H7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Excav or damage to facility/pipeline by operator/subcontractor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Valves, leaking in wrong position</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Pipeline/equip overpressured</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Motor Vehicle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Tank overfilled</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Other human error</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>87. Direct Employee</td>
<td>OP</td>
<td>Was the individual involved:</td>
<td>Part H7</td>
<td>Number of employees involved who failed a post-accident test:</td>
<td>PPTS: large non-AST spills caused by Operator Error. OPS: no equiv.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Direct employee of operator</td>
<td></td>
<td>drugs: ______ pure alcohol: ______</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Contract employee engaged by the operator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>88. Drug Test</td>
<td>OP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>89. Natural Force Damage</td>
<td>NF</td>
<td>Which Natural Forces were involved in this failure (check all that apply):</td>
<td>Part H2</td>
<td>Natural Forces</td>
<td>PPTS: large non-AST spills caused by Natural Forces. OPS: large spills with primary cause Natural Force. Options are similar but not identical, e.g. PPTS combines landslide &amp; mudslide; subsidence &amp; other earth movement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Landslide or mudslide</td>
<td></td>
<td>□ Earth Movement: Earthquake; Subsidence; Landslide; Other ___</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Earthquake</td>
<td></td>
<td>□ Lightning</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Subsidence/other earth movement</td>
<td></td>
<td>□ Heavy Rains/Floods: Wash-outs; Floatation; Mudslide; Scouring; Other; ___</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Wind, hurricane, or tornado</td>
<td></td>
<td>□ Temperature: Thermal stress; Frost heave; Frozen components; Other ___</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Cold weather</td>
<td></td>
<td>□ High Winds</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Frost heave</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Lightning</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Heavy rains/floods incl. washout</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
<td>90. Other Causes</td>
<td>OT</td>
<td>☐ Riverbed or seabed scouring ☐ Other</td>
<td>Part H8</td>
<td>OTHER</td>
<td>PPTS: large non-AST spills caused by OPS: large spills with primary cause Other OPS provides indication of where revisions likely. Also allows for more detail on the unusual</td>
</tr>
<tr>
<td>91. Feedback</td>
<td>Feedback</td>
<td>Allows user to suggest improvements to Record Release form</td>
<td></td>
<td></td>
<td>PPTS: continuously available as menu item OPS: no equiv</td>
</tr>
<tr>
<td>92. Narrative</td>
<td></td>
<td></td>
<td>Part I</td>
<td>Narrative description of factors contributing to the event</td>
<td>PPTS: no equiv OPS: all large spills</td>
</tr>
</tbody>
</table>

Notes:
The term "larger spills" or "large spills" for both PPTS and OPS refers to those that must report detailed information on a "Long Form." For PPTS, these incidents involve a release of 5 barrels or more, or a death, an injury, a fire or an explosion. For OPS, these incidents include the same thresholds as PPTS, plus any spill to water.

"AST": Aboveground Storage Tank; "Non-AST": any system part other than an Aboveground Storage Tank
PART DS. DESCRIPTION OF RELEASE

Date of release: __/__/__  (back)

Is pipeline or facility:  ☐ interstate
☐ intrastate  (back)

Is pipeline or facility:  ☐ a gathering line (based on function, not Part 195 definition)
If so, is it  ☐ regulated under Part 195 or its state equivalent
☐ unregulated under Part 195  (back)

Was or will a DOT 7000-1 report be submitted?  ☐ Yes  ☐ No  ☐ Don't know  (back)

Was or will a telephonic or written release report be made to any State agency?  ☐ Yes  ☐ No  ☐ Don't know  (back)

Was a telephonic report made to the National Response Center for this incident?  ☐ Yes  ☐ No  ☐ Don't know  (back)

Transported commodity released (check one):
☐ HVL’s or other flammable or toxic fluid which is a gas at ambient conditions
☐ CO2, N2 or other non-flammable, non-toxic fluid which is a gas at ambient conditions
☐ Gasoline, diesel, fuel oil, or other petroleum product which is a liquid at ambient conditions
☐ Crude oil  (back)

Did this release reach any "high consequence areas" (49 CFR Part 195.452)? [note: to be added in new PPTS system]
☐ Yes  ☐ No  ☐ Don't know

If yes, specify below the types of HCA’s affected and whether they were identified or not identified in your Integrity Management Program as HCA’s that the pipeline segment “could affect.” If a particular type of HCA was not affected, leave blank.

- Commercially navigable waterway  ☐ identified  ☐ not identified
- High population area  ☐ identified  ☐ not identified
- Other populated area  ☐ identified  ☐ not identified
- Unusually Sensitive Area – Water  ☐ identified  ☐ not identified
- Unusually Sensitive Area – Ecological  ☐ identified  ☐ not identified  (back)

Approximate size range of release:  ☐ <1 gal sheen on water
☐ 1 gal – 4.99 bbls  PART SM
☐ ≥5 bbls  (back)

Estimated size of release: ____________ bbls

Amount of commodity recovered: ____________ bbls  (back)

Is recovery of additional commodity anticipated?  ☐ Yes  ☐ No  ☐ Don’t know  (back)

Did release occur:  ☐ Onshore  ☐ Offshore  (back)
PPTS Reporting Form

<table>
<thead>
<tr>
<th>State ______</th>
<th>Federal OCS waters</th>
<th>State waters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did release occur in “non-rural” area (Part 195 definition)? □ Yes □ No □ Don’t know</td>
<td>Offshore area (without block number e.g. Ship Shoal)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Approximate water depth: ________ feet</td>
<td></td>
</tr>
</tbody>
</table>

[back]
PPTS Reporting Form

PART CQ. CONSEQUENCE OF RELEASE

Was there a fire? □ No □ Yes (back)

Was there an explosion? □ No □ Yes (back)

Any deaths or injuries? □ No □ Yes If Yes Complete also PART PB (back)

Public evacuation necessary? □ No □ Yes If Yes Complete also PART PB (back)

Was the area affected by the release contained on the company-controlled facility (excluding right-of-way)? □ Yes □ No □ Don’t know (back)

Type of water impacted (check all that apply): (back)
□ None
□ Surface water If checked, Was an intake shutdown? □ Yes □ No □ Don’t know
□ Groundwater If checked, Was a well shutdown? □ Yes □ No □ Don’t know
□ Drinking water for human consumption
□ A drinking water source identified as an area unusually sensitive to environmental damage (USA)

Type of ecology impacted (check all that apply):
□ None
□ Vegetation/plant life
□ Fish/aquatic life (excluding livestock)
□ Birds (excluding livestock)
□ Other wildlife (excluding livestock)
□ Livestock such as commercially raised fish, animals, birds and other livestock (back)

Remediation activities undertaken related to the following (check all that apply):
□ None needed
□ Vegetation/plant life
□ Soil
□ Surface water
□ Groundwater
□ Drinking water for human consumption
□ Fish/aquatic life
□ Birds
□ Other wildlife (excluding livestock)
□ Livestock such as commercially raised fish, animals, birds and other livestock (back)

Were other environmental projects performed which are not listed above? □ No □ Yes □ Unknown at this time
If Yes Is it: □ Underway □ Anticipated □ Planned (back)

Were threatened or endangered species or plants injured (animal, plant, fish, or bird)? □ No □ Yes □ Don’t know (back)
PPTS Reporting Form

Has a Natural Resources Damage Assessment been performed?  □ No  □ Yes  □ Don't know

If Yes  Corrective action performed or planned?  □ No  □ Yes  (back)

Public or commercial property disrupted or damaged?  □ No  □ Yes  □ Don't know

If Yes, check all that apply:
□ Homes and/or personal property  □ Recreational resources
□ Businesses/commercial  □ Commercial navigation
□ Farming/agricultural business  (back)

PART FA. FACILITY INVOLVED

Part of system involved (check one main category and one subcategory):

□ Aboveground storage tank
□ Atmospheric or Low Pressure  □ Pressurized

□ Cavern or other belowground storage facility
□ Sub-surface facility  □ Wellhead equipment

□ Pump/meter station; terminal/tank farm piping & equipment, including sumps
Does facility operate above 20% SMYS? □ Yes  □ No  (SMYS back only)
□ Aboveground equipment or pipe
□ Belowground equipment or pipe
□ At aboveground/belowground transition

□ Onshore pipeline, including valve sites
Does facility operate above 20% SMYS? □ Yes  □ No  (SMYS back only)
□ Belowground equipment or pipe
□ At unintentional exposure of buried pipe
□ At designed aboveground/belowground transition
□ Aboveground equipment or pipe

□ Offshore pipeline, including platforms
Does facility operate above 20% SMYS? □ Yes  □ No  (SMYS back only)
□ Shoreline crossing or shore approach
□ Below water
□ Splash zone
□ Above water  (back)
**PPTS Reporting Form**

*If Station/Terminal/Tank Farm, Onshore Pipeline, or Offshore Pipeline, complete “Item involved”.*

**Item involved (check one):**

- ☐ Pipe or Pipe Seam  Also complete PART PI
- ☐ Weld, including heat-affected zone  Also complete PART WL
- ☐ Valve
- ☐ Pump
- ☐ Meter/Prover
- ☐ Scraper Trap
- ☐ Sump/Separator
- ☐ Weld Fitting
- ☐ Repair Fitting
- ☐ Threaded or Other Fitting
- ☐ Other  (back)

Year item was installed (actual or estimated if necessary)  __________  (back)

---

**PART CA. CAUSE OF RELEASE**

Primary cause of release (check one):

- ☐ Third party damage (current or past)  PART TP
- ☐ Corrosion  PART CR
- ☐ Pipe material, pipe seam, pipe weld or repair weld failure  PART PW
- ☐ Equipment malfunction or failure of non-pipe component  PART EQ
- ☐ Operator error or other incorrect operation  PART OP
- ☐ Natural forces  PART NF
- ☐ Other  PART OT  (back)

Part CD NOT to be completed when the facility involved is an Aboveground Storage Tank, a Cavern or Other Belowground Storage Facility, or Sumps/Separators.

**PART CD. CONDITIONS RELATED TO RELEASE**

Maximum operating pressure of failed component (psig):  __________  ☐ Don’t know

Estimated pressure at time and location of failure (psig):  __________  ☐ Don’t know  (back)

System Tests and Inspections

Had there been a pressure test on the system?  ☐ Yes  ☐ No  ☐ Don’t know

If Yes  Duration of most recent test (hrs.)  __________  ☐ Don’t know

Maximum pressure of most recent test (psig)  __________  ☐ Don’t know

Year of most recent test  __________  ☐ Don’t know  (back)

Had there been an in-line internal inspection device run at the point of failure?  ☐ Yes  ☐ No

If Yes  Type of device run (check all that apply including combination tools):

- ☐ High resolution magnetic flux tool  Year of latest in-line inspection:  __________
- ☐ Low resolution magnetic flux tool  Year of latest in-line inspection:  __________
- ☐ UT tool  Year of latest in-line inspection:  __________
- ☐ Geometry tool  Year of latest in-line inspection:  __________
- ☐ Caliper tool  Year of latest in-line inspection:  __________
- ☐ Crack tool  Year of latest in-line inspection:  __________
- ☐ Hard spot tool  Year of latest in-line inspection:  __________
- ☐ Other  Year of latest in-line inspection:  __________  (back)

Leak Detection

Was the release initially detected by? (check one):

- ☐ CPM/SCADA-based system with automated leak detection (alert/alarm)
- ☐ Remote operating personnel, including controllers
- ☐ Static shut-in test or other pressure or leak test
- ☐ Local operating personnel, procedures, or equipment
- ☐ Air patrol or ground surveillance
- ☐ A third party
- ☐ Other  (back)

Was the presence of the release confirmed by? (check one):

- ☐ CPM/SCADA-based system with automated leak detection (alert/alarm)
Remote operating personnel, including controllers
Static shut-in test or other pressure or leak test
Local operating personnel, procedures, or equipment
Air patrol or ground surveillance
A third party
Other (back)

Did the applied leak detection tools perform as expected?  □ Yes  □ No  □ Don’t know

If No  Reason for non-performance (check one):
□ Field instrumentation failure
□ Communications failure
□ Software failure
□ Human error
□ Other (back)

Emergency Response

Did the Federal Government take control of the response?  □ Yes  □ No  □ Don’t know (back)

If: 1) the volume released is greater than or equal to 50 bbls; and 2) the release involved an Onshore or Offshore Pipeline, complete “Isolation Response” section below:

Isolation Response

Was there an isolation?  □ Yes  □ No (if No, skip remainder of section)
What is the approximate distance between valves which were closed for the initial isolation?  _______ miles  □ Don’t know
How long did it take from release detection/confirmation to perform this initial isolation?  _______ minutes  □ Don’t know
What is the approximate distance between valves which were closed for the final isolation, if needed?  _______ miles
□ Don’t know
How long did it take from release detection/confirmation to perform this final isolation, if needed?  _______ minutes  □ Don’t know (back)
PPTS Reporting Form

These instructions should appear as one of the first screens the User sees upon entering the Release Record program

Feedback or Suggested Improvements

This section describes a feature which is built into the database program which allows you to provide valuable feedback and suggested improvements to this Release Record Form “online”. As you enter the data, a “Feedback” menu item is continuously available to you. This menu item can be activated while you are entering data for any data field. It will then allow you to make either: 1) a comment relating to that particular data field; or, 2) a more general comment relating to the overall database program. Selecting the “Feedback” menu item will activate the following pop-up screen where you will be able to register your feedback or suggested improvements:

- General comment on overall database program
- A definition is needed for this term
- The definition which exists is not clear enough
- This data element or question is not appropriate
- This data element or question needs to be stated more clearly
- A new data element or question needs to be added
- Other feedback or suggested improvement

Explain your selection above:
___________________________________________________________________
___________________________________________________________________
___________________________________________________________________
___________________________________________________________________
___________________________________________________________________
___________________________________________________________________
___________________________________________________________________
___________________________________________________________________

Definitions – Terms contained in the Release Record program should be bolded to indicate that a definition and/or explanation is available via a pop-up screen. (back)
PART SM. SHORT FORM FOR SMALL RELEASES

Any deaths or injuries? □ No □ Yes If Yes □ return to Long Form (back)

Fire or explosion? □ No □ Yes If Yes □ return to Long Form (back)

Did release occur: □ Onshore □ Offshore (back)

If onshore:
Was the area affected by the release contained on the company-controlled facility (excluding right-of-way)? □ Yes □ No □ Don’t know (back)

Did release occur in “non-rural” area (Part 195 definition)? □ Yes □ No □ Don’t know (back)

Type of water impacted (check all that apply):
□ None
□ Surface water If checked, Was an intake shutdown? □ Yes □ No □ Don’t know
□ Groundwater If checked, Was a well shutdown? □ Yes □ No □ Don’t know
□ Drinking water for human consumption □ A drinking water source identified as an area unusually sensitive to environmental damage (USA) (back)

Part of system involved (check one):
□ Aboveground storage tank
□ Cavern or other belowground storage facility
□ Pump/meter station; terminal/tank farm piping & equipment, including sumps
□ Onshore pipeline, including valve sites
□ Offshore pipeline, including platforms (back)

Cause of release (check one):
□ Third party damage (current or past)
□ Corrosion
□ Pipe material, pipe seam, pipe weld or repair weld failure
□ Equipment malfunction or failure of non-pipe component
□ Operator error or other incorrect operation
□ Natural forces
□ Other (back)
PART PB. DETAILS OF PUBLIC SAFETY CONSEQUENCES

Fatalities and/or injuries:

- Number of operator employees
  - _____ killed  _____ injured
- Number of contractor employees working for the operator
  - _____ killed  _____ injured
- Number of others
  - _____ killed  _____ injured
- Total
  - _____ killed  _____ injured

Public evacuation undertaken (check all that apply):

- ☐ Precautionary evacuation undertaken by company
- ☐ Evacuation required by or initiated by a public official
PPTS Reporting Form

POP-UP SCREENS WHEN PIPE OR WELDS ARE INVOLVED

PART PI. DETAILS WHEN PIPE IS INVOLVED

Nominal pipe size  ______ inches  □ Don't know
Wall thickness  ______ inches  □ Don't know
SMYS (psi)  ________________  □ Don't know (SMYS back only)

Type of pipe (check one):
- □ Seamless
- □ Flash welded
- □ Butt-welded
- □ Spiral welded SAW
- □ Single SAW
- □ Lap-welded
- □ Spiral welded ERW
- □ DSAW
- □ Continuous welded
- □ Other
- □ Plastic/non-metallic
- □ Unknown

Manufacturer (if known)  ___________________  □ Don't know
Year of manufacture (if known)  ________  □ Don't know (back)

Was this a seam-related failure?  □ Yes  □ No  □ Don't know (back)

Nature of failure (check one):
- □ Pinhole leak or crack
- □ Rupture
- □ Puncture
- □ Other (back)

PART WL. DETAILS WHEN A GIRTH WELD OR FABRICATION OR REPAIR WELD IS INVOLVED

Nature of failure (check one):  (back)
- □ Pinhole leak or crack
- □ Total separation of weldment
- □ Partial separation of weldment

Was this an acetylene weld?  □ Yes  □ No  □ Don't know (back)
PART TK. CAUSE OF RELEASE – ABOVEGROUND STORAGE TANKS

Description of failure (check one):

- Single Bottom System failure
- Double Bottom System failure
- Shell or Head failure
- Overfill/overpressure (check one)
  - Operator error
  - Equipment malfunction
  - Other
- Appurtenance failure (check one)
  - Roof drain failure
  - Other

- Damage by Third Party  Go to PART TP
- Damage by Operator  Go to PART OP
- Damage by Natural Force  Go to PART NF

- Other failure

Was this a catastrophic failure?  Yes  No  Don’t know

Was the tank hydrotested or otherwise pressure tested upon construction or major repair?  Yes  No  Don’t know

Is the tank bottom cathodically protected?  Yes  No  Don’t know

Is the tank bottom internally lined or coated?  Yes  No  Don’t know

Year of most recent API 653 internal tank inspection or equivalent  _________  Don’t know

Year of most recent API 653 shell thickness external tank inspection or equivalent  _________  Don’t know
PART TP. THIRD PARTY DAMAGE

Failure occurred due to (check one):

☐ Third party excavation, construction, or other work activity occurring at the time of the failure
   → #1 Pop-up screen below

☐ Third party excavation, construction, or other work activity occurring at some time prior to the failure
   → #2 Pop-up screen below

☐ Other, including vandalism, third party vehicle contact with facility, and other intentional or unintentional acts.
   → #3 Pop-up screen below (back)

#1 POP-UP SCREEN – OCCURRING AT TIME OF FAILURE

Damaging party or activity (check one):

☐ Pipeline operator or their contractor
   → Will be recorded as “Operator Error”, and NOT “Third Party Damage”

☐ Other liquid or gas transmission pipeline operator or their contractor

☐ Other underground facility operator or their contractor (check one):
  ☐ Power or electric company
  ☐ Cable television
  ☐ Water utility
  ☐ Other industry or party

☐ Farming or agricultural business

☐ Homeowner or other activity related to homeowner’s residence

☐ Residential or commercial development

☐ Road construction or maintenance, including ditch grading, traffic light construction, etc.

☐ Railroad construction, maintenance, or repair

☐ Waterway or reservoir construction or maintenance, including dredging

☐ Some type of offshore oil production, maritime, shipping, or fishing activity or equipment

☐ Some type of inland waterway oil production, maritime, shipping, or fishing activity or equipment

☐ Other damaging party or activity (back)

If on land, depth of cover at site of damage: ______ inches  ☐ Don’t know (back)

Did damage result from (check one):

☐ Drilling, boring, augering
☐ Blasting, tunnelling, mining
☐ Trenching, grading, backfilling
☐ Other (back)

Was OneCall system utilized?

☐ None Available  ☐ Yes  ☐ No

Pipeline operator’s response to One-Call notification (check all that apply):

☐ Marked or staked centerline of pipe
☐ Provided on-site representation during excavation
PPTS Reporting Form

☐ Excavated own line for the third party
☐ Pipeline operator was unaware of excavation activity

Patrol frequency: ☐ Weekly ☐ Bi-weekly ☐ Other

Was pipeline right-of-way permanently marked and visible to third party at the site?
☐ Yes ☐ No ☐ Don’t know

Was there a job-specific excavation plan in effect? ☐ Yes ☐ No ☐ Don’t know (back)

Apparent primary cause of damage (check one):
☐ Failure of third party to utilize One-Call System
☐ Failure of third party to wait the proper time
☐ Failure of third party to respect pipeline company directions or procedures
☐ Failure of third party to take reasonable care to protect facilities
☐ Failure of pipeline operator to respond or to properly mark the pipeline
☐ Other (back)

#2 POP-UP SCREEN – PRIOR DAMAGE

Possible or probable cause of damage (check one):
☐ Some type of onshore construction, boring, or excavation equipment
☐ Some type of offshore or inland waterway oil production, maritime, shipping, or fishing activity or equipment

Approx. water depth: _______ feet ☐ Don’t know
☐ Other source
☐ There are no clues as to the possible cause (back)

Evidence of damage (check one):
☐ Coating damage only
☐ Dent or buckle without metal loss
☐ Gouge or other metal loss (with or without dent or buckle)
☐ Other (back)

Position of damage on pipe (check one):
☐ Top (10-2 o’clock position)
☐ Side (8-10 & 2-4 o’clock position)
☐ Bottom (4-8 o’clock position)

If onshore, depth of cover at site of damage: ______ inches ☐ Don’t know (back)

#3 POP-UP SCREEN – OTHER

Cause of third party damage (check one):
☐ Vandalism/theft/mischief
☐ Sabotage
☐ Vehicle impact

If checked, Was vehicle driven by:
☐ A direct employee of the operator or a contract employee engaged by the operator

If checked retrace your steps, this is an operator error, not a third party damage
☐ Other party
☐ Fire (back)
☐ Other (back)
PART CR. CORROSION

Location of corrosion: □ External □ Internal (back)

If External Corrosion, complete the following:

Type of corrosion (check one):
- Galvanic
- Microbiologically-induced corrosion
- Atmospheric
- Stray current corrosion
- Stress corrosion cracking
- Selective seam corrosion
- Other (back)

Facility externally coated or painted?
- Yes
- No
- Don't know

If Yes, Type of coating (check one):
- Coal Tar
- Tape
- Extruded plastic
- Fusion-bonded epoxy
- Paint
- Other
- Unknown

Was shielding, tenting, or disbonded coating a factor in this failure?
- Yes
- No
- Don't know

Was damaged coating a factor in this failure?
- Yes
- No
- Don't know

Was the pipeline or equipment at the site of the failure operating above 100 degrees F?
- Yes
- No
- Don't know (back)

Facility under cathodic protection?
- Yes
- No
- Don't know (back)

Year that CP was installed: _______

Has a Close Interval CP Survey been performed?
- Yes
- No
- Don't know (back)

Year of most recent CIS: _______ (back)

Did failure occur within or just outside of a road crossing casing?
- Yes
- No
- Don't know (back)

If Internal Corrosion, complete the following:

Were inhibitors being injected, dewatering pigs run, or other internal corrosion mitigation systems or procedures employed?
- Yes
- No
- Don't know

Year since mitigation system or procedures have been continuously employed:

Don't know (back)
PART PW. DETAILS OF PIPE, PIPE MATERIAL, & WELD FAILURE

Failure occurred due to (check one):

☐ Defective pipe body
☐ Defective pipe seam
☐ Defective girth weld
☐ Defective fabrication weld or repair weld
☐ Original construction or fabrication damage or defect
☐ Pipe transport damage
☐ Prior third party damage

What other factors do you suspect played a role in the incident? (check all that apply)

☐ Fatigue crack growth
☐ Overpressurization
☐ Ground settling or other loss of support
☐ Other factors
☐ None

PART EQ. DETAILS OF EQUIPMENT & NON-PIPE COMPONENT FAILURE

Failure occurred due to (check one):

☐ Malfunction of control or relief equipment
☐ Stripped threads, defective or loose fitting or tubing, failed coupling
☐ Seal or packing failure
☐ Gasket or O-ring failure
☐ Other equipment or non-pipe component failure
PART OP. OPERATOR ERROR OR INCORRECT OPERATION

Nature of the failure (check one):
- Excavation or physical damage to facility or pipeline by operator or operator’s contractor
- Valve left or placed in wrong position
- Pipeline or equipment overpressured
- Motor Vehicle
- Tank overfilled
- Other human error

Was the individual involved:
- A direct employee of the operator
- A contract employee engaged by the operator

PART NF. NATURAL FORCE DAMAGE

Which of the following Natural Forces were involved in this failure (check all that apply):
- Landslide or mudslide
- Earthquake
- Subsidence or other earth movement
- Wind, hurricane, or tornado
- Cold weather
- Frostheave
- Lightning
- Heavy rains or floods including washout
- Riverbed or seabed scouring
- Other

PART OT. OTHER CAUSE

Which of the following best describes this failure cause (check one):
- The cause of failure is unknown at this time
- The cause of failure could not be determined
- The cause of failure does not fit in any of the other classifications
**ACCIDENT REPORT – HAZARDOUS LIQUID PIPELINE SYSTEMS**

**INSTRUCTIONS**

Important: Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the Office Of Pipeline Safety Web Page at [http://ops.dot.gov](http://ops.dot.gov).

**PART A – GENERAL REPORT INFORMATION**


1. a. Operator's OPS 5-digit Identification Number (if known) / / / / / / / / / / / / / / / /
   b. If Operator does not own the pipeline, enter Owner's OPS 5-digit Identification Number (if known) / / / / / / / / / / / / / / / /
   c. Name of Operator ___________________________________________________________ (back)
   d. Operator street address ________________________________________________________ (back)
   e. Operator address __________________________, City, County, State and Zip Code (back)


2. Time and date of the accident (back)

   / / / / / / / / / / / / / / / /
   hr. month day year

3. Location of accident (If offshore, do not complete a through d. See Part C.1)

   a. Latitude: __________ Longitude: __________
   (If not available, see instructions for how to provide specific location)
   b. City, and County or Parish ____________________________________________________________________________________
   c. State and Zip Code ____________________________________________________________ (back)
   d. Mile post/valve station ○ or survey station no. ○ (whichever gives more accurate location) ____________________________________________________________ (back)

4. Telephone report (back)

   / / / / / / / / / / / / / / / /
   NRC Report Number month day year

5. Losses (Estimated)

   Public/Community Losses reimbursed by operator:
   Public/private property damage $ __________
   Cost of emergency response phase $ __________
   Cost of environmental remediation $ __________
   Other Costs $ __________
   (describe) ____________________________

   Operator Losses:
   Value of product lost $ __________
   Value of operator property damage $ __________
   Other Costs $ __________
   (describe) ____________________________
   Total Costs $ __________ (back)

6. Commodity Spilled ☐ Yes ☐ No (back)
   (If Yes, complete Parts a through c where applicable)
   a. Name of commodity spilled (back)
   b. Classification of commodity spilled: (back)
      ○ HVLs/other flammable or toxic fluid which is a gas at ambient conditions
      ○ CO₂ or other non-flammable, non-toxic fluid which is a gas at ambient conditions
      ○ Gasoline, diesel, fuel oil or other petroleum product which is a liquid at ambient conditions
      ○ Crude oil

   c. Estimated amount of commodity involved:
      ○ Barrels
      ○ Gallons (check only if spill is less than one barrel)

   Amounts:
   Spilled: __________
   Recovered: __________ (back)

**CAUSES FOR SMALL SPILLS ONLY (5 gallons to under 5 barrels):** (For large spills [5 barrels or greater] see Part H)

   ○ Corrosion ○ Natural Forces ○ Excavation Damage ○ Other Outside Force Damage
   ○ Material and/or Weld Failures ○ Equipment ○ Incorrect Operation ○ Other (back)

**PART B – PREPARER AND AUTHORIZED SIGNATURE**

(type or print) Preparer's Name and Title __________________________ Area Code and Telephone Number __________________________

Preparer's E-mail Address ____________________________________________________________

Authorized Signature __________________________ (type or print) Name and Title __________________________ Date __________________________ Area Code and Facsimile Number __________________________

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### PART C – ORIGIN OF THE ACCIDENT

1. Additional location information
   - Line segment name or ID: 
   - Accident on Federal land other than Outer Continental Shelf: Yes No
   - Is pipeline interstate?: Yes No

2. Location of system involved (check all that apply)
   - Operator’s Property
   - Pipeline Right of Way
   - High Consequence Area (HCA)?
   - Describe HCA:

3. Part of system involved in accident
   - Above Ground Storage Tank
   - Cavern or other below ground storage facility
   - Pump/meter station; terminal/tank farm piping and equipment, including sumps
   - Other Specify:

4. Failure occurred on
   - Body of Pipe
   - Pipe Seam
   - Scraper Trap
   - Pump
   - Sump
   - Joint
   - Component
   - Valve
   - Metering Facility
   - Repair Sleeve
   - Welded Fitting
   - Bolted Fitting
   - Girth Weld

5. Other (specify):

Year the component that failed was installed: / / / / (back)

If failure occurred on Pipeline, complete items a - g:

- Onshore pipeline, including valve sites
- Offshore pipeline, including platforms (back)

#### PART D – MATERIAL SPECIFICATION

1. Nominal pipe size (NPS): / / / / / / in.
2. Wall thickness: / / / / / / in.
4. Seam type
5. Valve type
6. Manufactured by: / / / / / / (back)

#### PART E – ENVIRONMENT

1. Area of accident
   - In open ditch
   - Under pavement
   - Above ground
   - Underground
   - Inside/under building
   - Other (specify)

2. Depth of cover: ___________ inches (back)

#### PART F – CONSEQUENCES (continuation of Page 2 of 4)

1. Consequences (check and complete all that apply)
   - Fatalities
   - Injuries
   - Product ignited Yes No (back)
   - Explosion Yes No (back)
   - Contractor employees working for operator: ___________________
   - General public: ___________________
   - Reason for Evacuation:
     - Precautionary by company
     - Evacuation required or initiated by public official (back)

2. Environmental Impact
   - Wildlife Impact:
     - Fish/aquatic Yes No (back)
     - Birds Yes No (back)
     - Terrestrial Yes No (back)
   - Soil Contamination Yes No (back)
   - Long term impact assessment performed: Yes No (back)
   - Anticipated remediation Yes No (back)
   - If Yes, check all that apply: Surface water Yes No (back)
   - Drinking water Yes No (back)
   - Ocean/Seawater Yes No (back)
   - Groundwater Yes No (back)
   - Private well Yes No (back)

---

Form RSPA F 7000-1 (01-2001)
**PART G – LEAK DETECTION INFORMATION**

1. Computer based leak detection capability in place?  
   - Yes  
   - No

2. Was the release initially detected by? (check one):  
   - CPM/SCADA-based system with leak detection  
   - Static shut-in test or other pressure or leak test  
   - Local operating personnel, procedures or equipment  
   - Remote operating personnel, including controllers  
   - Air patrol or ground surveillance  
   - A third party  
   - Other (specify) ____________________

3. Estimated leak duration  
   - days _____  
   - hours ____

**PART H – APPARENT CAUSE**

Important: There are 25 numbered causes in this Part H. Check the box corresponding to the primary cause of the accident. Check one circle in each of the supplemental categories corresponding to the cause you indicate. See the instructions for guidance.

**H1 – CORROSION**

1. □ External Corrosion  
   - a. Pipe Coating  
     - Bare  
     - Coated  
     - Other (back)
   - b. Visual Examination  
     - Localized Pitting  
     - General Corrosion  
     - Other (back)
   - c. Cause of Corrosion  
     - Galvanic  
     - Atmospheric  
     - Stray Current  
     - Microbiological  
     - Cathodic Protection Disrupted  
     - Stress Corrosion Cracking  
     - Selective Seam Corrosion  
     - Other (back)

2. □ Internal Corrosion  
   - (Complete items a – e where applicable.)
   - a. Pipe Coating  
     - Bare  
     - Coated  
     - Other (back)
   - b. Visual Examination  
     - Localized Pitting  
     - General Corrosion  
     - Other (back)
   - c. Cause of Corrosion  
     - Galvanic  
     - Atmospheric  
     - Stray Current  
     - Microbiological  
     - Cathodic Protection Disrupted  
     - Stress Corrosion Cracking  
     - Selective Seam Corrosion  
     - Other (back)
   - d. Was corroded part of pipeline considered to be under cathodic protection prior to discovering accident?  
     - Yes  
     - No
   - e. Was pipe previously damaged in the area of corrosion?  
     - Yes  
     - No

**H2 – NATURAL FORCES**

1. □ Earth Movement  
   - ⇒  
     - Earthquake  
     - Subsidence  
     - Landslide  
     - Other

2. □ Lightning
3. □ Heavy Rains/Floods  
   - ⇒  
     - Washouts  
     - Flotation  
     - Mudslide  
     - Scouring  
     - Other

4. □ Temperature  
   - ⇒  
     - Thermal stress  
     - Frost heave  
     - Frozen components  
     - Other

5. □ High Winds  
   - (back)

**H3 – EXCAVATION DAMAGE**

8. □ Operator Excavation Damage (including their contractors/Not Third Party)  
   - (back)

9. □ Third Party (complete a-f)  
   - (below)
   - a. Excavator group  
     - General Public  
     - Government  
     - Excavator other than Operator/subcontractor
   - b. Type:  
     - Road Work  
     - Pipeline  
     - Water  
     - Electric  
     - Sewer  
     - Phone/Cable  
     - Landowner-not farming related  
     - Farming  
     - Railroad  
     - Other liquid or gas transmission pipeline operator or their contractor  
     - Nautical Operations  
     - Other (back)
   - c. Excavation was:  
     - Open Trench  
     - Sub-strata (boring, directional drilling, etc…)
   - d. Excavation was an ongoing activity (Month or longer)  
     - Yes  
     - No
     - If Yes, Date of last contact: __/__/__
   - e. Did operator get prior notification of excavation activity?  
     - Yes; Date received: __/__/__ mo. __/__/__ day __/__/__ yr.  
     - No
     - Notification received from:  
       - One Call System  
       - Excavator  
       - Contractor  
       - Landowner
   - f. Was pipeline marked as result of location request for excavation?  
     - Yes  
     - No
     - If Yes, check applicable items i - iv)
     - i. Temporary markings:  
       - Flags  
       - Stakes  
       - Paint
     - ii. Permanent markings:  
     - iii. Marks were (check one):  
       - Accurate  
       - Not Accurate
     - iv. Were marks made within required time?  
       - Yes  
       - No

**H4 – OTHER OUTSIDE FORCE DAMAGE**

10. □ Fire/Explosion as primary cause of failure  
    - ⇒  
     - Fire/Explosion cause:  
     - Man made  
     - Natural

11. □ Car, truck or other vehicle not relating to excavation activity damaging pipe

12. □ Rupture of Previously Damaged Pipe  
    - (back)

13. □ Vandalism  
    - (back)

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### H5 – MATERIAL AND/OR WELD FAILURES

**Material**

<table>
<thead>
<tr>
<th>Item</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>14. □ Body of Pipe</td>
<td>○ Dent ○ Gouge ○ Bend ○ Arc Burn ○ Other ________</td>
</tr>
<tr>
<td>15. □ Component</td>
<td>○ Valve ○ Fitting ○ Vessel ○ Extruded Outlet ○ Other ________</td>
</tr>
<tr>
<td>16. □ Joint</td>
<td>○ Gasket ○ O-Ring ○ Threads ○ Other ________ (back)</td>
</tr>
</tbody>
</table>

**Weld**

<table>
<thead>
<tr>
<th>Item</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>17. □ Butt</td>
<td>○ Pipe ○ Fabrication ○ Other ________</td>
</tr>
<tr>
<td>18. □ Fillet</td>
<td>○ Branch ○ Hot Tap ○ Fitting ○ Repair Sleeve ○ Other ________</td>
</tr>
<tr>
<td>19. □ Pipe Seam</td>
<td>○ LF ERW ○ DSAW ○ Seamless ○ Flash Weld ○ Other ________ (back)</td>
</tr>
</tbody>
</table>

*Complete a-g if you indicate any cause in part H5.*

**a. Type of failure:**
- ○ Construction Defect ⇒ ○ Poor Workmanship ○ Procedure not followed ○ Poor Construction Procedures ○ Material Defect

**b. Was failure due to pipe damage sustained in transportation to the construction or fabrication site?**
- ○ Yes ○ No (back)

**c. Was part which leaked pressure tested before accident occurred?**
- ○ Yes, complete d-g ○ No

**d. Date of test:**
- /____/____/____ yr. /____/____ mo. /____/____ day

**e. Test medium:**
- ○ Water ○ Inert Gas ○ Other __________________________

**f. Time held at test pressure:**
- /____/____ hr.

**g. Estimated test pressure at point of accident:**
- __________________________ PSIG (back)

### H6 – EQUIPMENT

<table>
<thead>
<tr>
<th>Item</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>20. □ Malfunction of Control/Relief Equipment</td>
<td>○ Control valve ○ Instrumentation ○ SCADA ○ Communications ○ Block valve ○ Relief valve ○ Power failure ○ Other ________</td>
</tr>
<tr>
<td>21. □ Threads Stripped, Broken Pipe Coupling</td>
<td>○ Nipples ○ Valve Threads ○ Dresser Couplings ○ Other ________</td>
</tr>
<tr>
<td>22. □ Seal Failure</td>
<td>○ Gasket ○ O-Ring ○ Seal/Pump Packing ○ Other ________ (back)</td>
</tr>
</tbody>
</table>

### H7 – INCORRECT OPERATION

**a. Type:**
- ○ Inadequate Procedures ○ Inadequate Safety Practices ○ Failure to Follow Procedures ○ Other __________________________ (back)

**b. Number of employees involved who failed a post-accident test:**
- drug test: /____/____/____ alcohol test /____/____/____ (back)

### H8 – OTHER

<table>
<thead>
<tr>
<th>Item</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>24. □ Miscellaneous, describe:</td>
<td>__________________________</td>
</tr>
<tr>
<td>25. □ Unknown</td>
<td>○ Investigation Complete ○ Still Under Investigation (submit a supplemental report when investigation is complete) (back)</td>
</tr>
</tbody>
</table>

PART I – NARRATIVE DESCRIPTION OF FACTORS CONTRIBUTING TO THE EVENT

(Attach additional sheets as necessary) (back)