PG&E

All PG&E Pipeline

1A — Is the segment DOT Transmission? — Yes
1B — Incorporate CPUC / NTSB / PHMSA directives
No
D1 — Maintain current operations – DIMP

Manufacturing Threats

1C — Is the segment Pre-1970 * vintage? — No / Yes
1D — Seamless or DSAW — Yes / No
1E — SSAW, Spiral Welds, AO Smith
1F — Low Frequency ERW
1G — Joint Efficiency < 1 (e.g., Lap Welds, Reconditioned Pipe)
1H — Has a sub-part J strength test been conducted? — Yes / No
M1 — Remaining life fatigue analysis. Phase 1
1J — ≥30% SMYS — No / Yes
1L — HCA or class 2-4? — Yes / No
1K — HCA or class 2-4? — Yes / No
M4 — Reduce Pressure & Strength test Phase 1
M2 — Reduce Pressure & Replace Phase 1
M5 — Remaining life fatigue analysis Phase 1 Replace or Strength test Phase 2
M3 — Reduce Pressure and/or Remaining life fatigue analysis Phase 1. Replace, or ILI & Strength test Phase 2

* Or no longer installing LF-ERW or any pipe with a manufacturing threat   1

Fabrication & Construction Threats

2A — Is the pipe Pre-1960 vintage? — No / Yes
2B — Was the pipe constructed with? Wrinkle Bends Miter > 3 degrees Dresser Couplings Expansion Joints Non Standard Fittings Excessive Pups — Yes / No
2C — Does ECA indicate need for replacement? — Yes / No
F1 — Replace Phase 1 & 2
2D — ≥30% SMYS? — No / Yes
2E — Was the pipe Constructed with? Bell-Bell Chill Rings Pre-1940 Arc Welds Oxyacetylene Welds Bell Spigots — No / Yes
2F — Has a sub-part J strength test been conducted? — Yes / No
2G — HCA or class 2-4? — Yes / No
F2 — Reduce Pressure & Replace Phase 1
F3 — Strength test & ILI or Replace Phase 2

ECA= Engineering Condition Assessment   2

Corrosion & Latent Mechanical Damage Threats

3A — Has a sub-part J strength test been conducted? — Yes / No
3D — Part of sub-part O BIAP? — Yes / No
3B — HCA or Class 2-4? — Yes / No
3E — ≥30% SMYS? — Yes / No
C1 — Strength test & CIS or ILI & CIS Phase 2
C4 — ILI & CIS or Strength test & CIS Phase 2
C5 — ILI or Strength test or CIS & DCVG Phase 2
3C — ≥30% SMYS? — Yes / No
3F — ≥30% SMYS? — Yes / No
C2 — Reduce Pressure & Strength test Phase 1. ILI, or Replace Phase 2
3G — Has an ILI been conducted? — Yes / No
C3 — Strength test & CIS or ILI & CIS Phase 2
C6 — Part of Integrity Management Program
C7 — Retrofit and conduct an ILI at next re-assessment   3

Implementation Plan will upgrade all pipe operating greater than or equal to 30% SMYS for In-Line Inspection (ILI) in Phase 1 & 2.   Decision Trees Do Not Imply Final Decisions. Should Always be Combined with Practical Judgment   Please see accompanying document for logic and details behind each decision

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