

Allen McColloch Pipeline Management Strategy

PCCP Management Strategy

- · Conduct regular inspections, monitoring and assessments
- Monitor stray currents & install drain stations where necessary
- · Perform individual segment repairs as needed
- Plan & execute long-term rehabilitation
 - · Completed preliminary design
 - · Coordinate with member agencies on planned shutdowns



Allen McColloch Pipeline

Recent Rehabilitation

Additional AMP Urgent Repairs

- Apr. 2000 Rehabilitation of 18 pipe segments
- Feb. 2001 Replacement of 1 pipe segment
- Oct. 2001 Carbon fiber lining 8 pipe segments
- May 2010 Steel lining of 6 pipe segments
- Nov. 2020 Steel lining of 20 pipe segments



2010 AMP Steel Lining

January 3, 202

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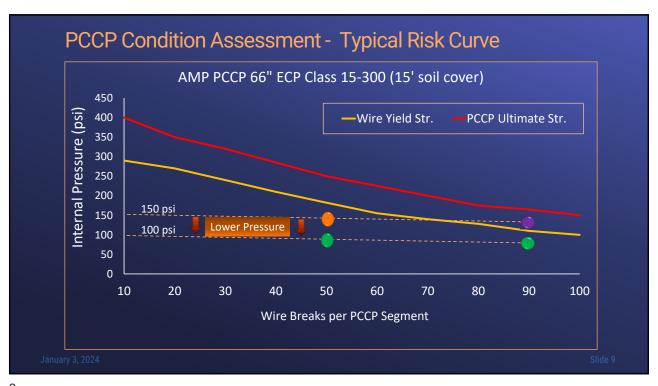
AMP PCCP Inspection in 2023

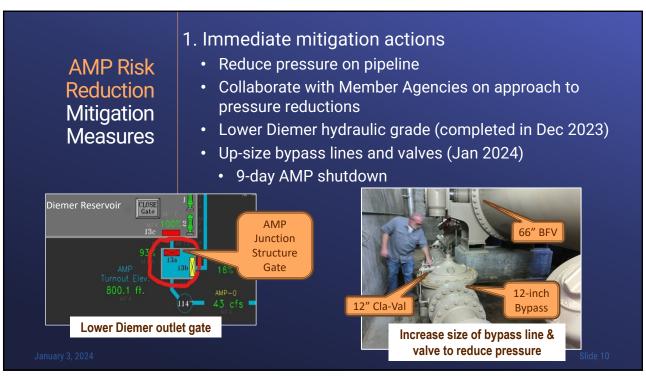
- Electromagnetic inspection in Nov 2023
- Inspection report completed in Dec 2023
 - Anomalies consistent w/prestressed wire damage
 - 81 wire break locations (5 to 130 per segment)
 - 73 new segments compared to 2018 inspection
- PCCP inspection summary:

Wire Breaks (WB)	No. of pipe segments
130	1
95-70	4
60-50	8
45-40	12
35-30	5
25-20	14
15-5	37
Total	81

January 3, 2024







AMP Risk Reduction Mitigation Measures

2. Near-term rehabilitation

- Prioritize replacement of distressed PCCP segments based on risk analysis of wire breaks and pressure conditions
- Collaborate with Member Agencies on approach to shutdown and rehab work
- Install carbon fiber lining & steel-lining (April 2024)
 - Multiple alternatives being evaluated



- Collaborate with Member Agencies
- Install steel lining for remaining distressed segments in Winter 2024/2025



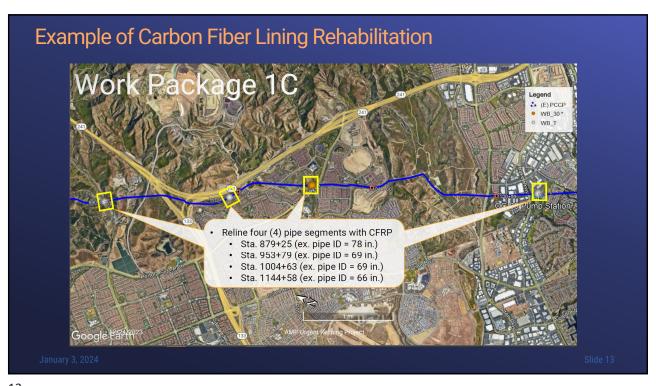
Carbon Fiber Reinforced Polymer (CFRP)

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Urgent Repairs to AMP

Approach to Contracting Urgent Repairs

- Utilize change order authority in existing contracts to immediately commence planning and staging work
 - Contract 2026: SLF PCCP relining
 - Contract 2002: Lakeview Pipeline steel pipe procurement
 - Contract 2088: Sepulveda Feeder Carbon Fiber lining
- Return to Board in February 2024 to increase change order authority on all three contracts

January 3, 2024

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