

Flow Accelerated Corrosion Predictive Analysis Methodology

CHECWORKS
Parameter

Allowable
Input

Actual Values

Steam rate

Velocity

Steam quality

Op. Temperature

CONCLUSION: All values within parameters

Flow Accelerated Corrosion

Predictive Analysis Methodology

- FAC affects carbon steel components in steam cycle where process temperature exceeds 200° F
- North Anna and Surry use standardized programs to predict, detect, and monitor for FAC based on EPRI Guidelines
- EPRI CHECWORKS code is used to evaluate changes
- Conditions are bounded by CHECWORKS parameter ranges

Flow Accelerated Corrosion Programatic Controls

- FAC wear rates based on predictive analysis and actual inspection results:
- Largest wear rate is ??? mils/year
- Largest wear rate found in ??????? system
- Inspection of susceptible lines will continue and compare predictions with inspection results

Flow Accelerated Corrosion Conclusion

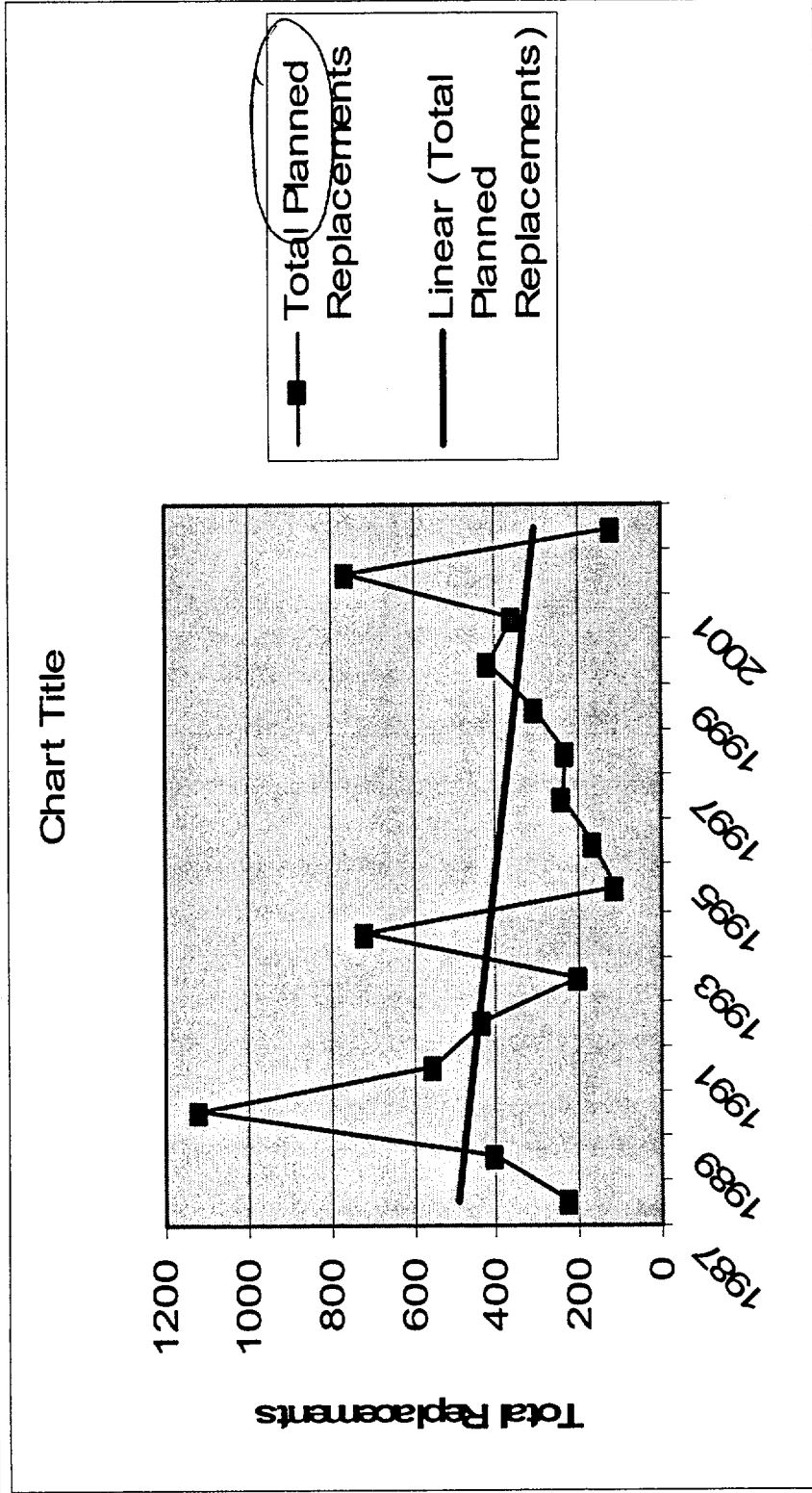
- North Anna and Surry have effective FAC program which monitors susceptible piping for degradation caused by FAC
- Inspection data is incorporated into the FAC program and thus the program is continuously fine tuned
- The FAC program will ensure that components susceptible to FAC will be managed during the period of extended operation



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Surry and North Anna
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07-Aug-02

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