

#EPRI-K1

BOILER TUBE DAMAGE KIT

Designed and Manufactured to Replicate Field Removed Specimens

KIT CONTAINS

19 BOILER TUBES:

- Representing a complete range of fossil-fired boiler tube failure mechanisms steam and water touched.

TUBE SPECIFICATIONS:

- 18 Tubes At 2.5" OD X 0.25" Wall X 8" Long
- 1 Tube At 1.5" X 0.25" Wall X 8" Long

MATERIAL

- 17 Tubes are SA513 T5 GR 1020/1026 CS
- 1 Tube is 304/304L
- 1 Dissimilar metal weld

FLAWS / INDICATIONS

- Long term overheating/creep
- Fire side corrosion (coal)
- Toe crack, stress corrosion (stainless)
- Soot blower erosion
- Fatigue crack (toe)
- Maintenance damage
- Pitting
- Rubbing / Fretting
- Chemical cleaning damage (thinning & pitting)
- Material flaw (forging lap)
- Corrosion fatigue crack
- Fly ash erosion, Hydrogen damage
- Acid Phosphate corrosion
- Caustic gouging
- Supercritical waterwall cracking (1.5" OD tube)
- Weld defects (lack of fusion and porosity)
- Graphitization

EPRI Program 63 Members Receive a Special Discount.

Use This Kit To Assist In The Training And Qualifying Of NDE Technicians To Accurately Identify Specific Boiler Tube Damage Found In Fossil Plants.

Carrying Case: Included (Rolling and Lockable)

