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on guidelines to ensure non of air cooled heat exchang ntaining parts of the exchanger alo

Safety Data Sheets (MSUS) are electronic do to in the MSDS program by equipment number by searching by manufacturer, product name, obsedure user is responsible for referring to the appropriate the second s

brporate Safety Procedures shall be referenced to for a hey are accessible electronically plant wide by going to the Services tab on the Intranet. Personnel are responsible for appropriate safety procedures.

National Board Inspection Code ANSI-NB-23, Latest Edition

API-510 Pressure Vessel Inspection Code: Maintenance Ins Repair, and Alteration; Latest Edition

American Society of Mechanical Engineers (ASME), Section

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Applicable Local, Stale and Federal Regulations

Applicable Engineering Standards and Practices API

P571 Conditions Causing Deterioration and Failure

RP572 Inspection of Pressure Vessels

Air Cooled Heat Exchangers for General R

Management of Process Hazards

nce Inspection Pro

## nstory

ent mechanical design requirements

revious repair history

Re-rating history Material degradation

Corrosion rates

he Authorized inspector should take into consideration op and the process chemistry the equipment is subjected to an potential degradation mechanisms.

## External Inspection

- External inspection of an air cooled exchanger is part determination of mechanical integrity.
- Then Authorized Inspector should examine platforms, stairways, and their supports (including fireproofing), t serviceability.
- The concrete pedestals, foundations and steels structed examined for cracks, chips, spalling, or deterioration connections should be inspected to insure that they
- The Authorized Inspector should ensure that the estamped or identified.

Nozzles should be examined for distortions, craegradation.

ninations should be made to determ sees using Ultrasonic testing. A into the PCMS database

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are removed, and internal visual Inspectors, an Internal visual Inspectors of cleanliness, pitting, erosion of all dispersions of indications awing or sketch along with measured quality.

Additional inspection methods such as eddy clinspection (IRIS) may he performed on the tube the condition of the tubes. These uses of these a shall be at the discretion of the Authorized Inspec

#### Repairs

All repairs performed on this equipment should authorized be inspector and will be done in accordance with applicable coordinates. Repairs should be documented and included in Equipment Files.

#### **Nonconformances**

- Nonconformance (Definition) Any change in the condescribed on the original manufacturer's data report (API 510 or repair/alterations that affect the pressure capability of the exchanger.
- Nonconformance conditions will be reviewed by a conteam (typically Area Maintenance Engineer and Armake repair or alteration recommendations to assume and code compliance. A SAP Mechanical Integritused to document and request repairs.

Nonconformance issues not resolved in a tip ported to refinery senior management.

