

Inspection, Assessment, and Repair of Coke Drums and Peripheral Components in Delayed Coking Units

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Inspection, Assessment, and Repair of Coke Drums and Peripheral Components in Delayed Coking Units

1 Scope

This document includes information and guidance on the practices used by industry practitioners on the inspection, assessment, and repair of coke drums and peripheral components in delayed coking units. The guidance is general and does not reflect specific details associated with a design offered by licensors of delayed coking technology or inspection tools, repair techniques, and/or engineering assessments offered by contractors. For details associated with the design offered by a licensor or services provided by contractors, the licensor or contractor should be consulted for guidance and recommendations for their specific design details, inspection techniques, assessment procedures, and repair practices. **This document is a technical report and as such provides generally used practices in industry and is not an API Recommended Practice.**

This document complements information contained in API 934-G, which also contains information and guidance on the practices used by industry practitioners on coke drums and peripheral components. There is some overlap in the information and guidance provided in this document and in API 934-G; however, one of these documents will be considered the primary source of information or control document for this information. Table 1 shows which technical report will serve as the primary source of information or the control document for each of the general categories of information.

Table 1—Primary Source of Information or Control Document for General Categories of Information on Coke Drums and Peripheral Components

Information Category	Control Document
General Information on Delayed Coking	API 934-G
Results on Past Industry Surveys of Coke Drums	API 934-G
Description of Damage Mechanisms for Coke Drums	API 934-G
Design	API 934-G
Materials Selection	API 934-G
Fabrication	API 934-G
Operating Practices	API 934-G
Inspection Associated with Finding and Characterizing Damage	API 934-G
Inspection Associated with Repairs	API 934-J
Damage Assessment	API 934-J
Repairs	API 934-J
Welding Considerations	API 934-J
Life Extension	API 934-J

2 Background

2.1 References

The following referenced documents are employed as guidance in the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the reference document (including any amendments) applies.

API 510, *Pressure Vessel Inspection Code: In-service Inspection, Rating, Repair, and Alteration*