



A Rockwell Automation Company

Alyeska Pipeline Service Company HinZ Document Control - Process Change for Issuing Drawings

The Client:

Alyeska Pipeline Services Company (APSC) owns and operates the Trans Alaska Pipeline system (TAPS), a 48-inch sweet crude line that stretches from Prudhoe bay to the Valdez terminal, over 800 miles in all. The Trans Alaska Pipeline has operated since 1979 and shipped over 15 billion barrels of oil.

In 2003 the Alyeska Pipeline Services Company

(APSC) started the process of redesigning the Trans Alaska Pipeline to handle reduced flow rates more efficiently. This has been dubbed the “Strategic Reconfiguration Project” and included the renewal of four pumping facilities and a pressure relief station.

The Requirement:

For the Alyeska project, as for most projects, there was a requirement for accurate tracking of engineering documents and drawings. There were multiple issues of drawings from Preliminary Engineering through the Issue For Construction stages and to As-Built. Additionally there were engineering procurement documents, managed by revision. These included specifications, vendor qualifications, material requisitions, purchase orders, and the incoming vendor

documents. There were also reports, studies, and Interdisciplinary Checks (IDCs). All these documents and drawings were required to be issued for review, comment, approval and eventually construction at various stages through the project. Revision control and document numbering in two different systems were required also. Inter-company document control coordination was required.

The Design Solution:

A document control team was established at HinZ to accommodate this function. HinZ provided direct input to the SNC-Lavalin (engineering prime contractor) PM+ system for preparing transmittals of documents and drawings. The document controller received the documents and drawings from the engineering disciplines and made a quality check was done on document numbering and revisions before preparing the transmittal.

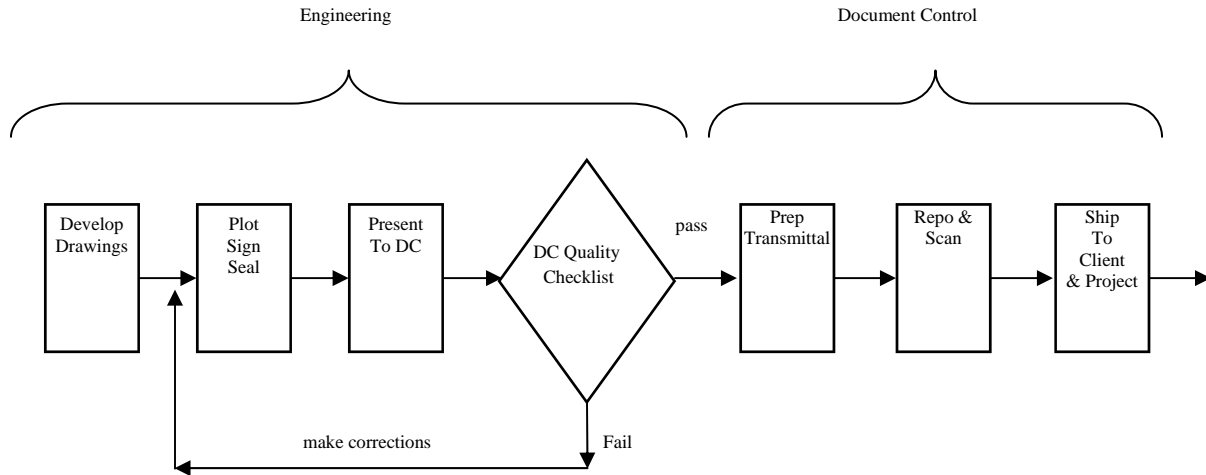
The Document Control team also issued internal engineering IDCs. This process ensured all engineering documents could go through a review cycle against a set list of reviewers looking for interdisciplinary interferences, such as a cable running through a column or clearances around equipment.

The documents and drawings were issued according to a distribution list for the appropriate action (i.e. review, comment, approve). An engineering runner was used as a interoffice courier, checker, and corrector of documents in the issue process. The runner would be dispatched whenever a document could be advanced in the process or was found to be deficient allowing a critical document to be walked through the system quickly. At times a document control expeditor was used to track all the documents in the review cycle to promote responses from the reviewers. Similarly incoming documents were accepted, circulated and filed.



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System Specifications:

Hinz provided over 4500 engineered drawings, each with typically four issues each.

There were over fifty automation documents

prepared by Hinz and many more from the prime engineering contractor and the client.

For further information or to contact a Hinz office near you, please check our website at:

www.hinz.com