



CAPTURE – The Procurement Engineering and Bill of Materials Solution

Component, Assemblies, Parts Technical Utilization Requirements Evaluation (CAPTURE) is the Procurement Engineering and Bill of Materials solution. CAPTURE provides a cost effective way to optimize the Procurement Engineering processes to ensure that quality components and parts are procured and installed.

CAPTURE effectively combines the capability to generate component piece-part breakdown lists (BOMs) with procurement engineering evaluations. The system generates and tracks procurement packages implementing technical evaluation to the commercial grade dedication and item equivalency evaluations.

CAPTURE is an end-user driven module that emulates a utility's technical evaluation, commercial grade dedication, and item equivalency evaluation processes.

Background

All modules in Genesis Solution Suite® were created using a solid engineering knowledge base.

CAPTURE functions in both a client/server environment using a local network and a remotely located client interface communicating via the Internet.

System Features

Procurement Engineering

CAPTURE automates the procurement engineering processes to establish a complete Procurement Engineering Package. The Procurement Engineering process within CAPTURE consists of three forms: Procurement Evaluation (PE), Commercial Grade Dedication (CGD), and Item Equivalency Evaluation (IEE). Within the PE form, item classifications and technical evaluations are performed for replacement parts, including:

- **Classification of the Item**
- **Technical Requirements**
- **Design & Safety Functional Requirements**
- **Failure Mode Requirements**
- **Safety Classifications**
- **Storage and Purchase Requirements**

Within CAPTURE, technical evaluations are performed once using the PE form and can be assigned to multiple Equipments, Commercial Grade Dedication and Item Equivalency Evaluations (if required).

An acceptance process (to provide reasonable assurance that the Commercial Grade Item to be used as a basic component will perform its intended safety function) is recorded within the CGD form, and include:

- **Critical Characteristics**
- **Acceptance Criteria Methods and Reference**
- **Inspection and Test Requirements**

The IEE form allows engineers to perform analysis that deem an item equivalent to another item designed and manufactured under 10 CFR Part 50, Appendix B, quality assurance program, and include::

- **Original/ Replacement Parts Characteristics**
- **Obsolete Component Data**
- **Equivalent Replacement Data**
- **Basis for Establishment of Equivalency**

Bill Of Materials

CAPTURE provides a spreadsheet like interface to record for each item on the Bill of Materials, part specific information, such as:

- **Manufacturer/Model/Catalog Id**
- **Parts Lists (option is provided to automatically import parts from existing BOM Package and/or by Manufacturer, Model, or Catalog ID)**
- **Quantity Requirements and Safety Evaluations of piece parts**
- **Multiple Equipment assignment**

Revision Control & Record Keeping

Electronic signature and archival revision control allow the system to operate in a paperless environment. The Bill of Material (BOM), Procurement Evaluation (PE), Commercial Grade Dedication (CGD), and Item Equivalency Evaluations (IEE) packages are maintained for traceability. CAPTURE's revision control methodology provides the ability to supersede an existing package by creating a new, unique tracking number..

Copy Function

The CAPTURE copy function allows users to copy entire records. Numerous components evaluated by procurement engineering are very similar. CAPTURE allows engineers to search on any existing component (record) by description, stock item, part number, host component, or manufacturer and copy the component into a new record. The copied data in the new record can be edited and saved.

Management Tracking

CAPTURE has the ability to provide status accounting of works in progress. In addition, status workflow is available for BOM packages using an e-mail function alerting the appropriate person that the package has been prepared and is ready for review, or has been reviewed and is ready for approval.

For more information, contact Vincent Renzi at vrre@epm-inc.com or 508-532-7167

CAPTURE Version 2.0.0

CAPTURE DEPLOYMENT REQUIREMENTS:

Server:

Database Management System - Oracle® Version 8.x and greater
or Microsoft® SQL Server
Disk Space - 1 GB (total)
Memory - 128 MB (minimum)

Client:

Operating System - Microsoft® Windows XP, 2000, or NT 4.0
Disk Space - 60 MB
Memory - 128 MB (minimum)



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