

## Part Traceability and Marking

**Requirement** Tubes for nuclear fuel rods are fabricated, then cut to length and finished.

Regulatory requirements and product traceability requirements dictate that each part be marked with pertinent manufacturing information.

**Solution** Cut-off table, walking beam, and tube processing equipment are designed and assembled to prepare and finish tubes.

At the end of the manufacturing cell, all process information is uploaded from the PLC to a remote database via the Operator Interface computer.

Operator Interface computer queries a remote database for the coded information to be engraved on the tube.

Data is downloaded to the PLC, then to the Telesis printer, then engraved on the completed tube.

**Technology** Network communication                      SQL database  
PLC machine control                                      Telesis engraver

