CEM 515 PROCESS ANALYSIS & IMPROVEMENT

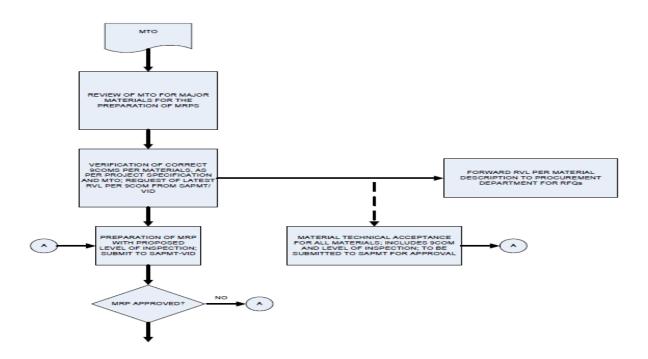
Presented BY: Omar Abdulrahman Srour

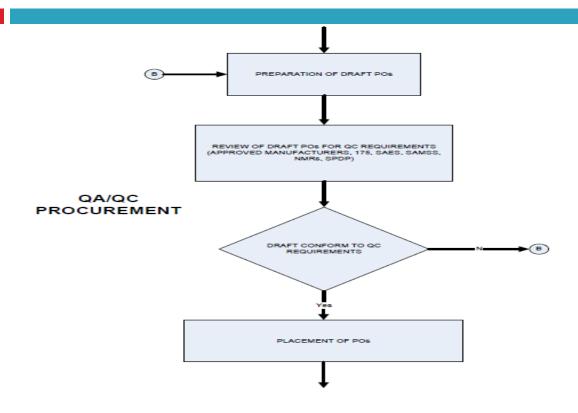
Process Description

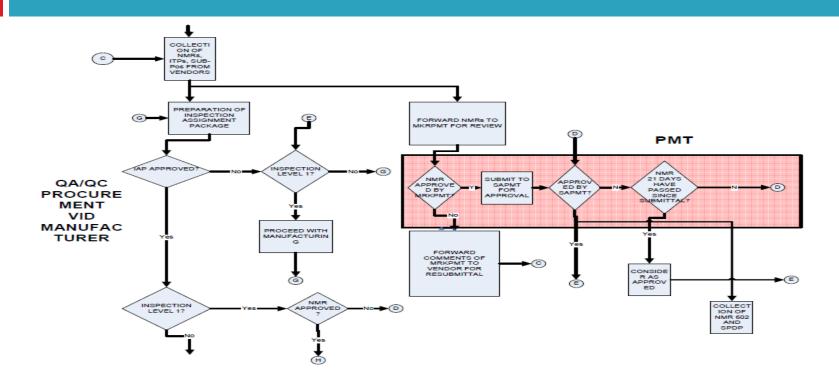
This process is followed by contractors working for Saudi Aramco LSTK & LSBP contracts for the procurement of major materials and equipments. The process starts upon the award of contracts to contractors and should be strictly followed while procuring long lead materials. The main milestones of the process are the following:

- Technical acceptance Package: this package includes the proper description of the materials, it's proper 9Com number and category and the agreed level of inspection.
- 2. Material requisition Package (MR): This includes the request for quotation package and the content of this package includes the data required by the manufacturers to bid for the supply of the equipments (i.e. material description and qty, specification and related standards, Drawings and datasheets)
- Inspection Assignment Package (IAP): The IAP is prepared for all equipments with level of inspection greater than 0. This includes at least the MR content in addition to the Purchase Order(PO), Inspection and Test Plan (ITP), Third Party Inspector resume, pre-inspection meeting (PIM) agenda, approved none material requirements (NMR-601)

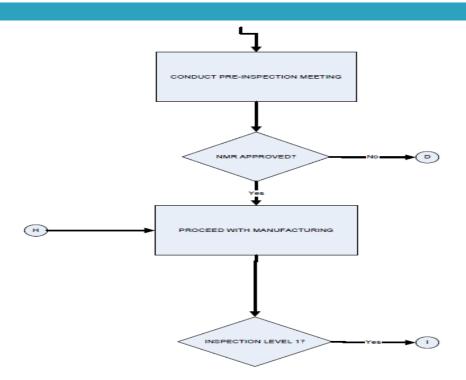
QA/QC PROCUREMENT SAPMT/VID





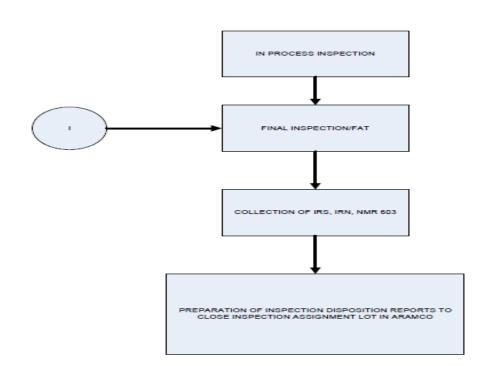


QA/QC PROCUREMENT THIRD PARTY INSPECTOR ARAMCO INSPECTOR MANUFACTURER



QA/QC PROCUREMENT THIRD PARTY INSPECTOR ARAMCO INSPECTOR MANUFACTURER

QA/QC PROCUREMENT VID



Process Customers

The Customers of the described Process are:

- The Project Team
- 2. The Client (Saudi Aramco)

Customers expectations

The expectations of Process Customers are:

- Procurement of equipments per the project standards and specifications
- 2. On time Delivery of the project equipments

Process Inputs and Interfaces

The inputs of the Process are:

- The project Material Take Off sheets (MTO)
- 2. The Project specification and design
- The client standards

The Process Interfaces are:

- Contractor Project execution Team
- 2. Saudi Aramco Project Management team (SAPMT)
- 3. Vendor Inspection Department (VID), Saudi Aramco
- 4. Contractor Procurement Department
- 5. Equipment's manufacturer
- Third Party Inspection Agency
- Main contractor store / Project Store

Process Outputs

The outputs of the Process are:

Procurement of project equipments from regulated vendors incompliance with project design, specification and standards

Process Problems

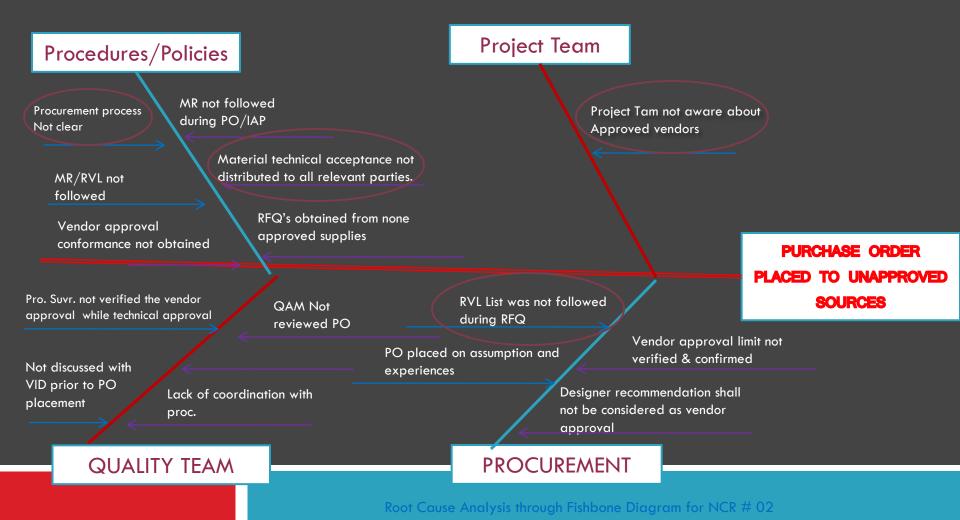
It has been noticed during the 15% external quality audit of this process hat the procurement department have placed orders to none approved vendors and an NCR have been issued.

NCR Copy

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Problem Root Cause

Ishikawa fishbone diagram tool have been utilized to illustrate the possible causes of the problem

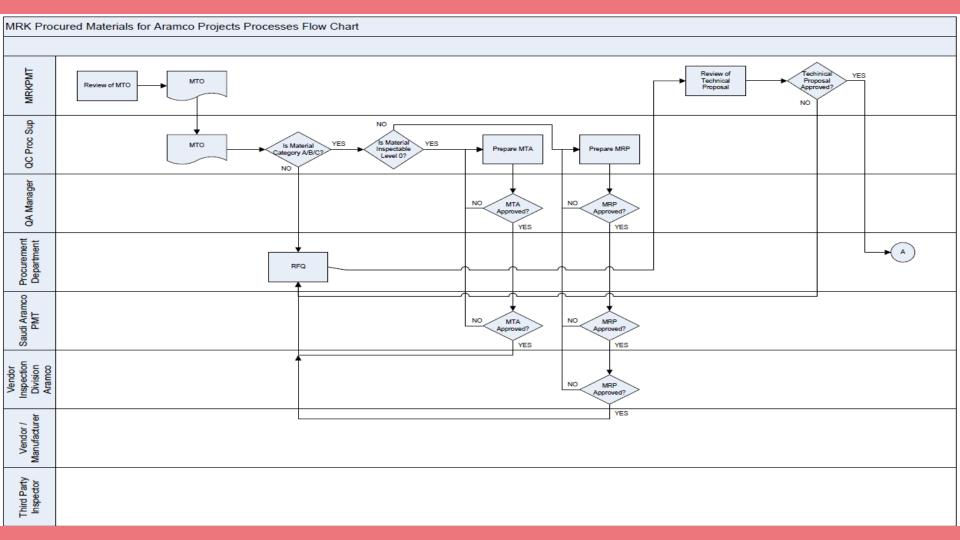


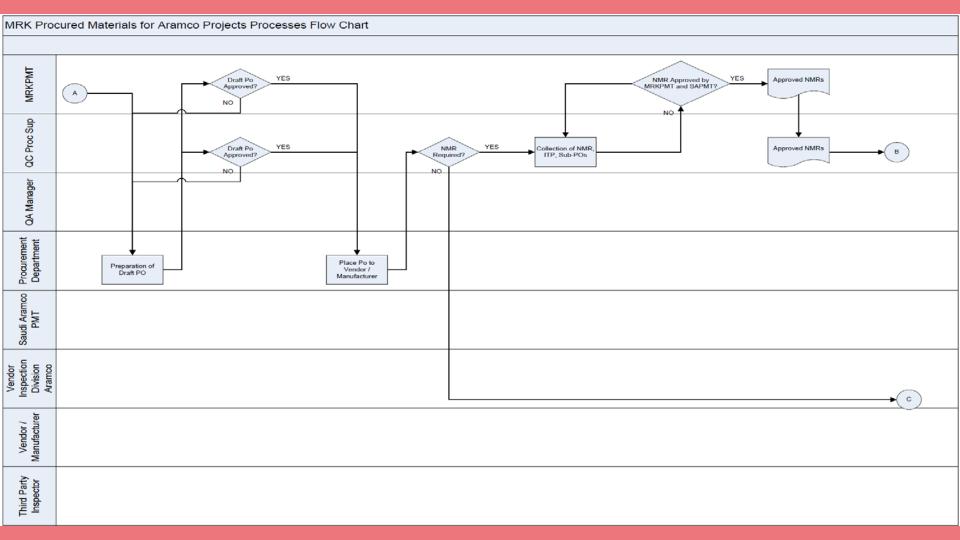
Recommendations

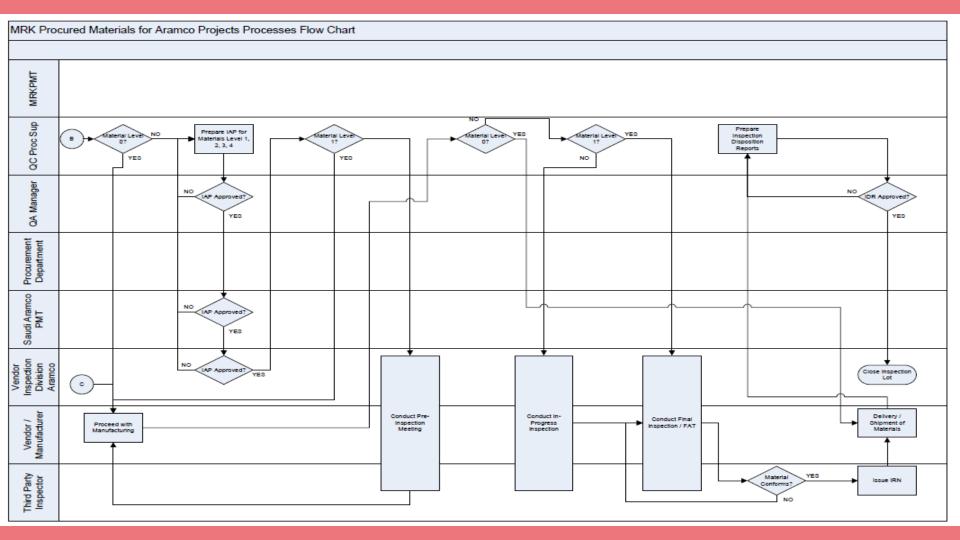
- 1. Revise the Process layout for more clarity
- Insure the compliance with TA by all parties via proper distribution of the document
- 3. Procurement Dept should refrain from sending RFQ's to none approved vendors

Revised Process flow chart

The Following slides shows the revised Process diagram and will be implemented on a pilot project prior to final implementation









Thank You