Sales and Operations Planning (SOP)

Transfer the following verbal description into a BPMN:

a) Sales and Operations Planning (SOP) needs to be maintained in the Production department by the Production Assistant using SAP ERP system to derive the independent & dependent demand.

b) First, to create the independent demand, the planning data needs to be transferred to demand management. In doing this, demand transfer parameters like: "specifying the material", "specifying the plant", "selecting a time frame", "inserting the planning data" and "defining the requirements type" are to be defined at the same time.

c) In the next step, the entries has to be confirmed and as a result the transferred planned data version are displayed. To complete the transfer, "transfer now" field has to be selected. In doing so, the independent demand are created now.

d) The dependent demand now has to be derived from the independent demand, which is done with Material Requirements Planning (MRP) – this step is based on the Bill of materials (BOM), the routings and the capacity of the work centers concerned.

e) The MRP run needs to be executed now and the MRP parameters (using Planning data) are to be defined.

f) MRP Parameters to be determined at the same time are: "specifying the plant", specifying the processing key – Regenerative Planning (NEUPL) will be used as processing key, based on the plant master data", "specifying category of Purchase Requisition – based on the Purchase Requisition for the Planning data", "specifying category of delivery schedule lines – taking into account delivery schedule lines", "specifying category of MRP list", "defining planning mode – this field allows alternative entries: Reactivate planning dates, delete planning dates or re-explode BOM" and "defining scheduling".

g) After defining the MRP parameters, all entries have to be confirmed. Upon confirming, the system displays a warning message "Please check input parameters". Executing the entries again, results in exploding the BOM and determining the dependent requirements. In this step the system basically checks two options: to purchase the materials (create PRs – through external service providers) or to produce the materials in-house (create planned production orders). Both options are then united again and the dependent demand is created/derived.

h) Finally, the independent & dependent demand created are combined and the Sales and Operations Planning (SOP) process is successfully maintained.

SOP to be maintained

SAP ERP — Transfer planning data to demand management — Production Assistant

SAP ERP — Enter demand transfer parameters — Production Assistant

SAP ERP — Specify the material — Production Assistant

SAP ERP — Specify the plant — Production Assistant

SAP ERP — Select a time frame — Production Assistant

SAP ERP — Insert the planning version — Production Assistant

SAP ERP — Define requirements type — Production Assistant

SAP ERP — Confirm the entries — Production Assistant

Transferred planned data version is displayed

SAP ERP — Complete the transfer by selecting " transfer now" — Production Assistant

Independent demand created

SAP ERP — Create/Derive dependent demand — Production Assistant

SAP ERP — Execute MRP run — Production Assistant

SAP ERP — Define MRP parameters — Production Assistant

Production department

SAP ERP — Specify plant — Production Assistant

SAP ERP — Specify processing key — Production Assistant

SAP ERP — Specify category of purchase requisition — Production Assistant

SAP ERP — Specify category of delivery schedule lines — Production Assistant

SAP ERP — Specify MRP list category — Production Assistant

SAP ERP — Define planning mode — Production Assistant

SAP ERP — Define scheduling — Production Assistant

SAP ERP — Reactivate planning dates — Production Assistant

SAP ERP — Delete planning dates — Production Assistant

SAP ERP — Re-explode BOM — Production Assistant

SOP succesfully maintained

SAP ERP — Confirm the entries — Production Assistant

Warning message displayed

SAP ERP — Execute the entries — Production Assistant

Exploding BOM & determining Dependent Requirements

External Service Provider — Purchase materials (create PRs) — Production Assistant

SAP ERP — Produce materials (create planned production orders) — Production Assistant

Dependent demand created/ derived

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