




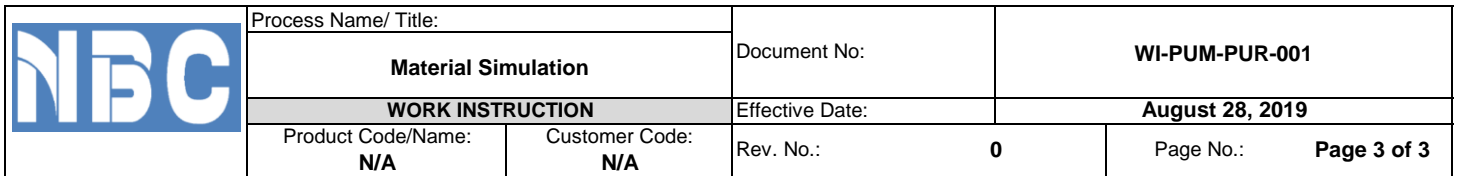
Process Name/ Title:		Document No:	WI-PUM-PUR-001
Material Simulation		Effective Date:	August 28, 2019
WORK INSTRUCTION		Rev. No.:	0
Product Code/Name: N/A	Customer Code: N/A	Page No.:	Page 1 of 3

No.	Work Procedure/ Illustration	Records/Remarks/ Quality Pointers
1	Prepare Material Simulation template(excel file).	
2	Save as this month filename and the revision number. (Example: Material Simulation - AUG 2019 rev.0)	
3	In Sheet 1(Volume Forecast), need to encode the latest 4 months Forecast or Master plan that you will received from Planning.	Note: Please make sure that all Job Order that Planning released should be included in the 4 months Forecast/ Master plan
4	If there will be new model, need to encode the list of materials in the Usage(sheet 7) of the file. List of the materials of the new model can view to the released Cutting Ledger and Tape Usage of Engineering - New product.	Note: Please make sure to carefully encode the usage of per Part number and consider to convert the unit indicated in Cutting Ledger and Tape Usage to the unit of Usage of Material Simulation.
5	Encoding of Inventory and Supplier's incoming in INVTY & INCOMING(sheet 8). Encode the beginning stocks from Warehouse Raw materials monitoring in Column C and Production Loose Parts in Column D.	Note: Confirm to the in-charge person if inventory adjustment already final.
6	Computation of Monthly consumption. The sheet 3 to 6 will be the computation of monthly consumption based on the given forecast and usage of per model. Simple formula should be as below: $\text{Material 1} = \text{Volume Forecast of the model for the specific month} \times \text{Usage of the specific model for the given material}$ All material and months should have this formula and please ensure that formula should correct by manually computing. All monthly consumption sheet should reflect the total consumption of per material.	
6	In sheet 2 (Summary) will reflect the summary of Beginning stocks, incoming, consumption and lacking quantity and remarks/comments for every materials.	

Eff./Rev. Date	Rev. No.	Details of change	Revise	Check	Approve	Prepate	Check	Approve
						M. Cruzat	N. de Villa	N. de Villa
						Est. date:	08/28/2019	

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7	<p>Make a formula that will link below data from other sheet.</p> <div style="display: flex; justify-content: space-between;"> <div> <p>SUMMARY SHEET</p> <p>Ending Inventory (Column E) →</p> <p>Monthly Incoming (Column F, G & H) →</p> <p>Monthly Consumption (Column I, K, M & O) →</p> </div> <div> <p>OTHER SHEET</p> <p>INVTY & INCOMING (Column C)</p> <p>INVTY & INCOMING (start in Column E)</p> <p>Monthly Consumption (Sheet 3,4,5 & 6)</p> </div> </div> <p>Then compute the balance/ending stocks per month if there will be lacking quantity.</p> <p>Column J or Current Month(N) = Last month Ending Stocks - Current month consumption</p> <p>Column L (N + 1) = (Column J + Current Month Incoming(Column F)) - Column K (N+1 Consumption)</p> <p>Column N(N + 2) = (Column L + Column G) - Column M (N+2 Consumption)</p> <p>Column P(N + 3) = (Column N + Column H) - Column O (N+3 Consumption)</p>	<p>Note:</p> <p>Lacking quantity was based on Sub assy production plan given by Planning Dept.</p>
	<p>Since the reflected lacking quantity in Sheet 2(Summary) was based on production plan, we should have an adjustment to consider the maintaining stocks here in Warehouse.</p> <p>The adjusted computation will be reflected in Sheet 9 (WITH 2 & 3 WEEKS ADJUSTMENT).</p> <p><u>Maintaining Stocs Consideration per Supplier</u></p> <p>Nitto Denko → Black tape = 2 weeks / Colored Tape & EPT Sealer = 3 weeks</p> <p>Delfingen → 2 weeks</p> <p>Fujikura → 3 weeks</p> <p>IEWP → 2 weeks</p> <p>Inoac → 2 weeks</p> <p>JPN → 2 weeks</p> <p>NBC Japan → 3 weeks</p> <p>Taisei → 2 weeks</p> <p>Shimoda → 3 weeks</p> <p>Need to make a formula again to link below data.</p> <div style="display: flex; justify-content: space-between;"> <div> <p>WITH 2 & 3 WEEKS ADJUSTMENT SHEET</p> <p>Last month ending Inventory (Column D)</p> <p>Monthly Incoming (Column E, I & M)</p> </div> <div> <p>SUMMARY SHEET</p> <p>Ending Inventory (Column E)</p> <p>Monthly Incoming (Column F, G & H)</p> </div> </div> <p>For the production plan requirement adjustment (Column G, K, O & S), need to consider the maintaining stocks per Supplier & item. Sample Computation:</p> <p><u>Nitto Denko Black tape</u></p> <p>Current Month Production Plan Adjustment (Column G) = Current Month Consumption(N) + $\left(\left(\frac{\text{Next Month (N+1) Consumption}}{4 \text{ (\# of weeks in Month)}} \right) \times 2 \text{ (Set maintaining stocks in weeks)} \right)$</p> <p>Next Month (N+1) (Column K) = $\left(\begin{matrix} \text{N+1 Consumption} \\ - \text{Deduct the 2weeks added qty to Column G} \end{matrix} \right) + \left(\left(\frac{\text{Next Month (N+2) Consumption}}{4 \text{ (\# of weeks in Month)}} \right) \times 2 \text{ (Set maintaining stocks in weeks)} \right)$</p> <p>Next Month (N+2) (Column O) = $\left(\begin{matrix} \text{N+2 Consumption} \\ - \text{Deduct the 2weeks added qty to Column K} \end{matrix} \right) + \left(\left(\frac{\text{Next Month (N+3) Consumption}}{4 \text{ (\# of weeks in Month)}} \right) \times 2 \text{ (Set maintaining stocks in weeks)} \right)$</p> <p>Next Month (N+3) (Column S) = N + 3 Consumption</p> <p>For the Monthly Expected Stock Computation please follow below:</p> <div style="display: flex; justify-content: space-between;"> <div> <p>Current Expected Stock = (Column H)</p> <p>Last Month Ending Inventory (Column D)</p> </div> <div> <p>Current Month + Incoming (Column E)</p> </div> <div> <p>For Request & for PO to Supplier (Column F)</p> </div> <div> <p>Current Month - Production Plan Adjustment (Column G)</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div> <p>Next Month (N+1) Expected Stock (Column L)</p> <p>Current Month Expected Stock (Column H)</p> </div> <div> <p>+ (N+1) Incoming (Column I)</p> </div> <div> <p>+ for PO to Supplier (Column J)</p> </div> <div> <p>N+1 - Production Plan Adjustment (Column K)</p> </div> </div>	<p>Note:</p> <p>Maintaining stocks will still change based on the instruction if need to reduce or increase.</p>



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