

CLEVELAND-CLIFFS INC.

Product Capability and Feasibility During Order Entry

Jason De Melo 27.04.21

AGENDA

- 1 The Company
- 2 Motivation
- 3 The Solution
- 4 Architecture
- 5 Technical Background



THE COMPANY

Key Highlights

Headquartered in Cleveland since 1847



\$1.6 billion Pro-Forma FY 2019 Adjusted EBITDA⁽²⁾

25,000 Employees as of December 2020

NYSE:CLF

Source: Cleveland-Clifts and AK Steel filings. Note: Revenues and Adjusted ERITDA are approximate figures (1) Pro-Forma LTM revenues exclude intercompany sales. (2) Pro-Forma Cleveland-Clifts includes \$150m in anticipated synergies.





MOTIVATION



Order Entry Process

As an example, the routes highligted would be selected, due to mill limits constraints.

- CSR receives a Purchase Order from the Customer.
- When defining the product attributes, Quality may need to review the product specification to determine if it feasible to produce it, and if it is, what plants are capable.
- This process is called *Technical Review*, and it is required before the order can be confirmed and a delivery date can be determined.



THE SOLUTION

The Order Spec Analyst (OSA) Panel

2 < 🌣 SAP	7		OSA Order Panel \sim		٩
OSA Order Panel				Edit	Lock Fields 😨 🗌 Validate Complete Hold 🔕
Sales Order: PO Number: Part Key:	Local Parent: Sales Customer: Order Ship City: Order Ship State:	End Use	SC PARTS OCM Pending Second Review Failed		Inquiry Complete Number: 000000000 Entered Date: Time: Complete Date: Time:
CONFIGURATION ORDE	ERED DIMENSION DETAILS CONVERTED DIMENSION	I DETAILS SPEC PANEL	AIM COMMENTS ROUTE PANEL RESTRIC	TIONS PANEL OCM COMIN	IENTS ORDER HISTORY PDF DOCUMENTS
Cust Part Number: Cust Order Facility:	BURNS HARBOR	MPDB Part Key & Seq.			
Sales Order Product:		Enduse Category:		Aspect Code:	
Cust Prime Side:	PRIME SIDE UP	Exposure Code:	UNEXPOSED	Order Weight Ib:	192000
Form:	COIL	Clean Surface No Smut: Max Coil Weight (lbs):		Max Coil Weight (kgs): Coil ID Eng:	21772 30
Coil Weight UOM: Oil Type:	POUNDS V	Unit Of Measure: Oil Amount Desc:	IN V	Coil OD Eng: Oil Brand:	NONE
Process:	NONE	Surface Finish:	NONE	Surface Treatment:	NONE
	MILL EDGE V	Ord Cust Inclusion: Customer MTO Trial:	NONE V No Value V	Inside Storage Indicator: Ord Test Rpt Req:	No TEST CERTIFICATION REQUIRED
Additional Test Reporting: Chem Prop Review Ind:	N	Additional YTE Reporting: OP Pickle:		Other Test Reporting: Order Flat Tol PO Text:	~ N
Flat Tol Plus: Shape/Flatness Critical I :	N	Flat Tol UOM:	IN V	Surface Critical Indicator: Coilbreak Indicator:	
0				controlly indicator.	

This application is a representation of the Sales Order in Fiori, with complete Variant Configuration functionality.



ARCHITECTURE





TECHNICAL BACKGROUND – HIGHLIGHTS

- 7 Groups of Products
- Around 60,000 Materials
- Over 250 Characteristics per Material
- 15+ Steelmaking/Finishing Plants
- 400+ Production Routes

TECHNICAL BACKGROUND – PROJECT IMPLEMENTATION

Implementation

- Partnership with SAP
- Timeline: part of a bigger scope project that took 18 months to implement

Benefits

- Reduce time to enter orders
- Business Process streamlined, by reducing systems complexity
- More accurate Order Entry
- Reduce the number of manual order reviews
- Data standardization

Additional information

- Technology used: SAP Variant Configuration and Pricing SAP Help Portal
- Check on note <u>2695561 Standard Variant Functions for common use cases -</u> <u>SAP ONE Support Launchpad</u>



THANK YOU



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