Emissions Transparency in the Supply Chain

24th February 2021

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CEO OFS Portal/COO PIDX International
# PIDX Standards Scope

## EXPLORATION
- ASN
- BillOfLadingCreate
- BillOfLadingResponse
- CementingTemplate
- CustodyTicket
- FieldTicket
- FieldTicketResponse

## DRILLING
- InventoryBalance
- InventoryBalanceRequest
- Invoice
- InvoiceResponse
- OrderChange
- OrderCreate
- OrderResponse

## PRODUCTION
- OrderStatusRequest
- OrderStatusResponse
- PIDXCodeLists
- PIDXLib
- PipelineNominationChange
- PipelineNominationCreate
- PipelineNominationResponse

## PROCESS
- Enhanced Price Sheet
- Price Sheet Mapping
- Pre-Qualification Standard
- Data Model
- Supplier Registration and Prequalification Data Standard

## TRANSPORT
- Receipt
- RequestRequisitionReturn

## REFINING
- LoadingDeliveryReceipt
- PIDX Bill Of Lading
- RightToLift
- CODE Crude Oil Data Exchange
- EDI GRADE-Gas Revenue Accounting Data Exchange

## MARKETING
- PriceSheet
- Quote
- QuoteNotification
- QuoteRequest
- Downstream Product Codes

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Digital Supply Chain

Operators

Buy Side – Purchase to Pay

SOURCING  ORDERING  FULFILLMENT  PAYMENT

Suppliers

Sell Side – Order to Cash
Operators

- Sourcing RFI/RFP
- Master Data Management
- Contract Management
- Contracts/Catalogs
- Request for Quote
- Purchase Requisition
- Purchase Order
- Goods Receipt/Service Entry
- Field Ticket Response
- Invoice Response
- Payment Remittance Advice

Suppliers

- Bid Response
- Catalog Data
- Quote Provided
- PO Change/Confirmation
- Field Ticket/Delivery
- Invoice
- Payment Received
Purchase to Pay
- Sourcing RFI/RFP

Order to Cash
- Bid Response

Contracts/Catalogs
- Catalog Data

Pre-Award
- (1 off)

Post-Award
- Master Data
- (1-100 off)

Post-Award
- Transaction Data
- (10k-100k+ off)

Purchase Order
- PO Change/Confirmation

Goods Receipt/Service Entry
- Field Ticket/Delivery

Field Ticket Response
- Invoice Response

Invoice
- Invoice

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Specify Emissions Ratings Requirements As Part of Sourcing

Individually Identify Contracted Items Emissions Ratings According to Manufacture Total and In-Use Rating

Identify Items Emissions and Quantity Used in Transactions
Manufacturing vs. Use Phase Emissions

Emissions for Manufacturing
Collective BOM of Emissions from Manufacturer

Emissions for Use
Calculated over Lifetime of Deployment

Electricity
The CO2 emission factor used is 0.309 kge / kWh, taken from BEIS (2018)*. This includes an allowance for the 7.8% of transmission/distribution losses on the national grid.

276 kWh * 0.309 kge = 85 kg (188 lbs) / year

Extending the PIDD Definitions for Materials and Services

UNSPSC Code 20 12 14 17

PIDX PIDD HANGER:LINER

PIDX PIDD Detailed Attributes
Extending the PIDX Definitions for Materials and Services

UNSPSC Code 20 12 14 17

PIDX PIDD HANGER:LINER

PIDX PIDD Detailed Attributes

***Workgroup to extend PIDX PIDD for GHG
Extending the PIDX Transaction Standards to Include Emissions Data

***Workgroup to Extend PIDX XSD & JSON Definitions for GHG using Open Footprint Definitions
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