



P-EDMS TRAINING

PIC Engineering Data Management System

Training for Normal
Users
Document Management System & 3D

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GROUND RULES



Mobile phones should be in silent mode.



Ask questions at any time –this session is intended to be interactive.



Try not to get distracted by your phone or email, do check your emails during break time only.

AGENDA

CONTEXT SETTING

1



Safety Moment

2



Learning Journey & Objectives

3



Introduction of PIC P-EDMS

APPLICATION & PROCESS OVERVIEW

4



P-EDMS Overview and User Functionalities

5



P-EDMS Document Review

ENGINEERING MANAGEMENT OF CHANGE

6



Introduction of EMOC

- Navigation
- Demo

3D MODEL

7



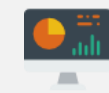
CAXperts UPV Introduction

8



UPV Features & Functionalities

9



Course Recap

SAFETY MOMENT



- Avoid jaywalking and use pedestrian crossing or bridge
- Obey traffic signals
- Use the sidewalk
- Beware of turning vehicles
- Don't use mobile devices while walking and crossing



LEARNING OBJECTIVES

Upon completion of this course, you will be able to:

- 1 Navigate the Engineering Management application (P-EDMS)
- 2 Perform Document Management capabilities such as document mark-ups/review , and workflow
- 3 How to raise EMOC
- 4 Query Engineering data such as 3D model and drawings

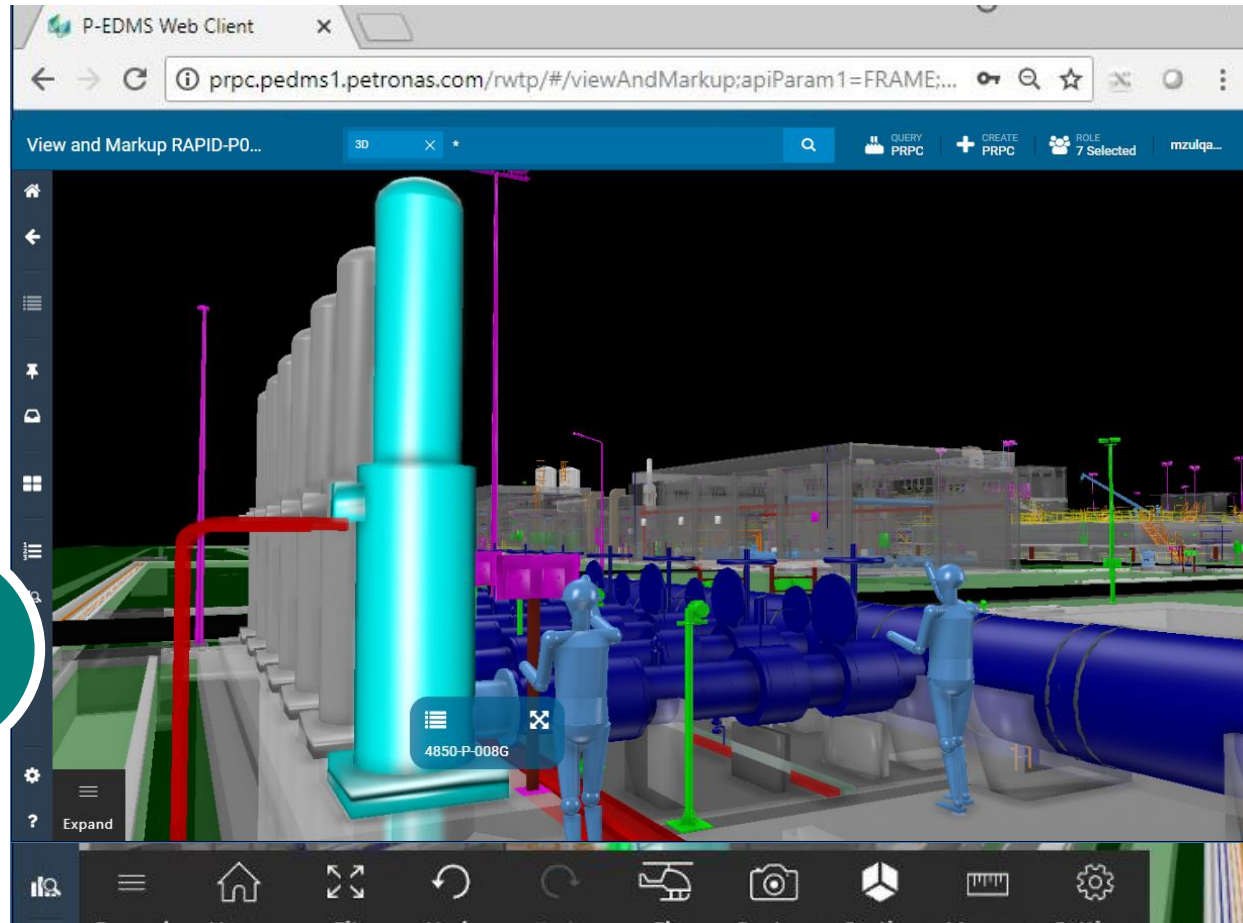
INTRODUCTION TO ENGINEERING APPLICATION

Pengerang Integrated Complex Engineering Data Management System (P-EDMS)

P-EDMS manage Engineering Data throughout its lifecycle. It supports:

- Engineering Data & Document Management
- Engineering Changes (MOC)
- Engineering 3D/2D View
- Integration with other systems

User can login to P-EDMS via web-portal from anywhere with internet connection. Easy to search, navigate, view 3D model without installation



INTRODUCTION OF PIC EDMS

URL : <https://pedms.fdw.petronas.com/>



- WEB CLIENT -

- Login to Facility Data Warehouse Web Client -

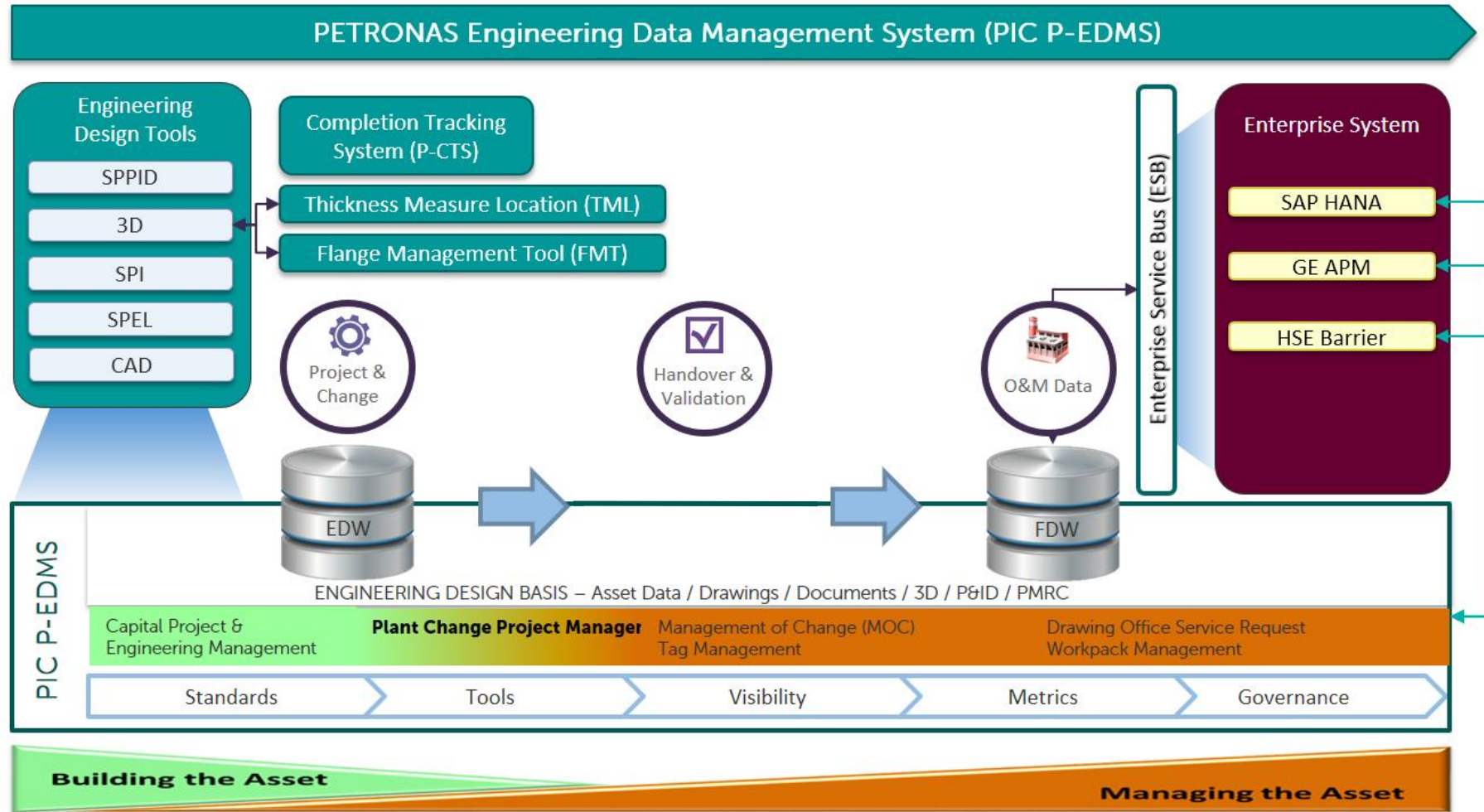


- Login to Engineering Data Warehouse Web Client -



OVERVIEW OF STORING OF ENGINEERING DATA IN P-EDMS

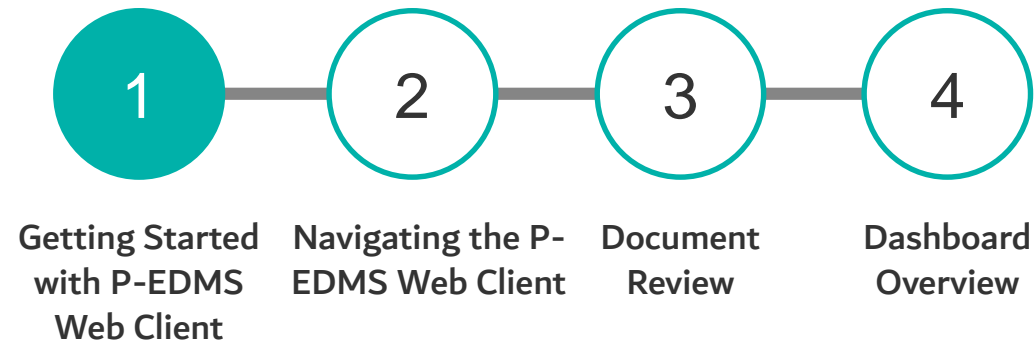
Diagram below show the architecture of PIC P-EDMS and how data and document flow between **Engineering Data Warehouse (EDW)** and **Facility Data Warehouse (FDW)**.



GETTING STARTED WITH PIC EDMS WEB CLIENT

LEARNING OBJECTIVE

Participants (all access roles) will gain a basic understanding on how to access PIC EDMS Web Client



P-EDMS HOME PAGE

- 1 Getting Started with P-EDMS Web Client
- 2 Navigating the P-Document Review EDMS Web Client
- 3
- 4 Dashboard Overview

P-EDMS Home Page Overview

Home URL: <https://pedms.fdw.petronas.com/>

HOME

Shortcut link to PIC EDMS Home Page

INTRO

Shortcut link to P-EDMS Introduction

LOGIN

Shortcut link to List of P-EDMS Login Site

SUPPORT

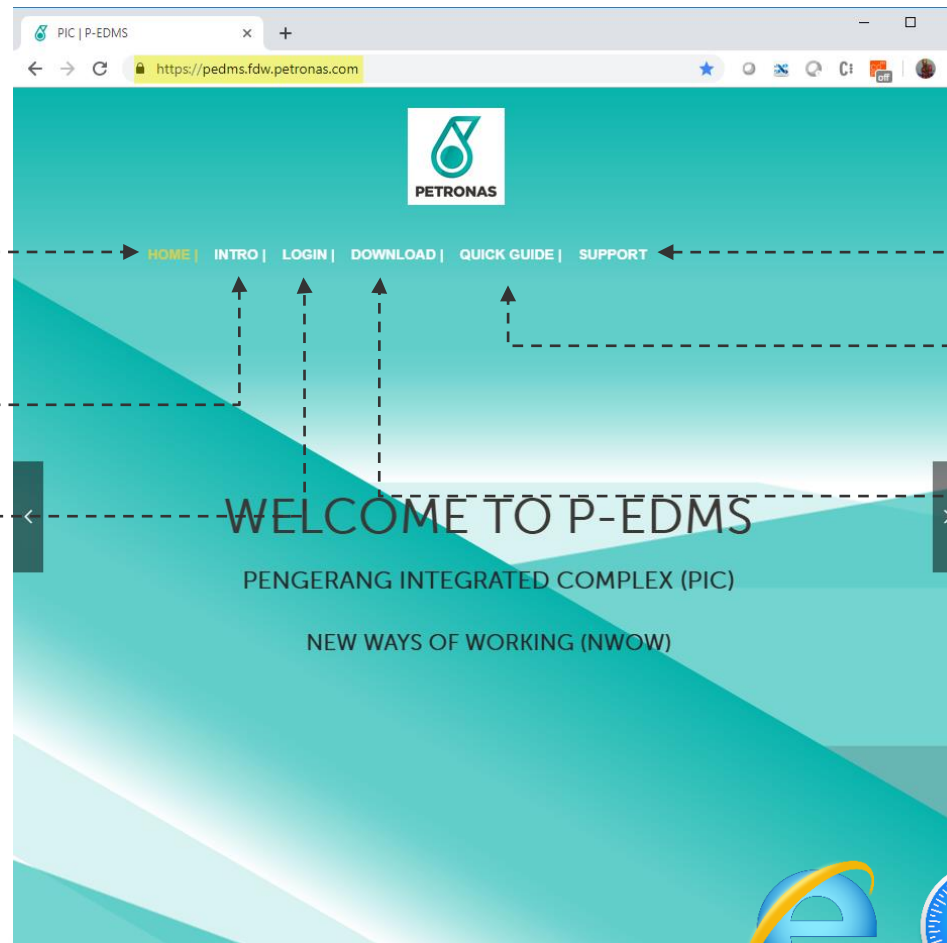
Shortcut link to P-EDMS Support contact number

QUICK GUIDE

Shortcut link P-EDMS Quick Guide

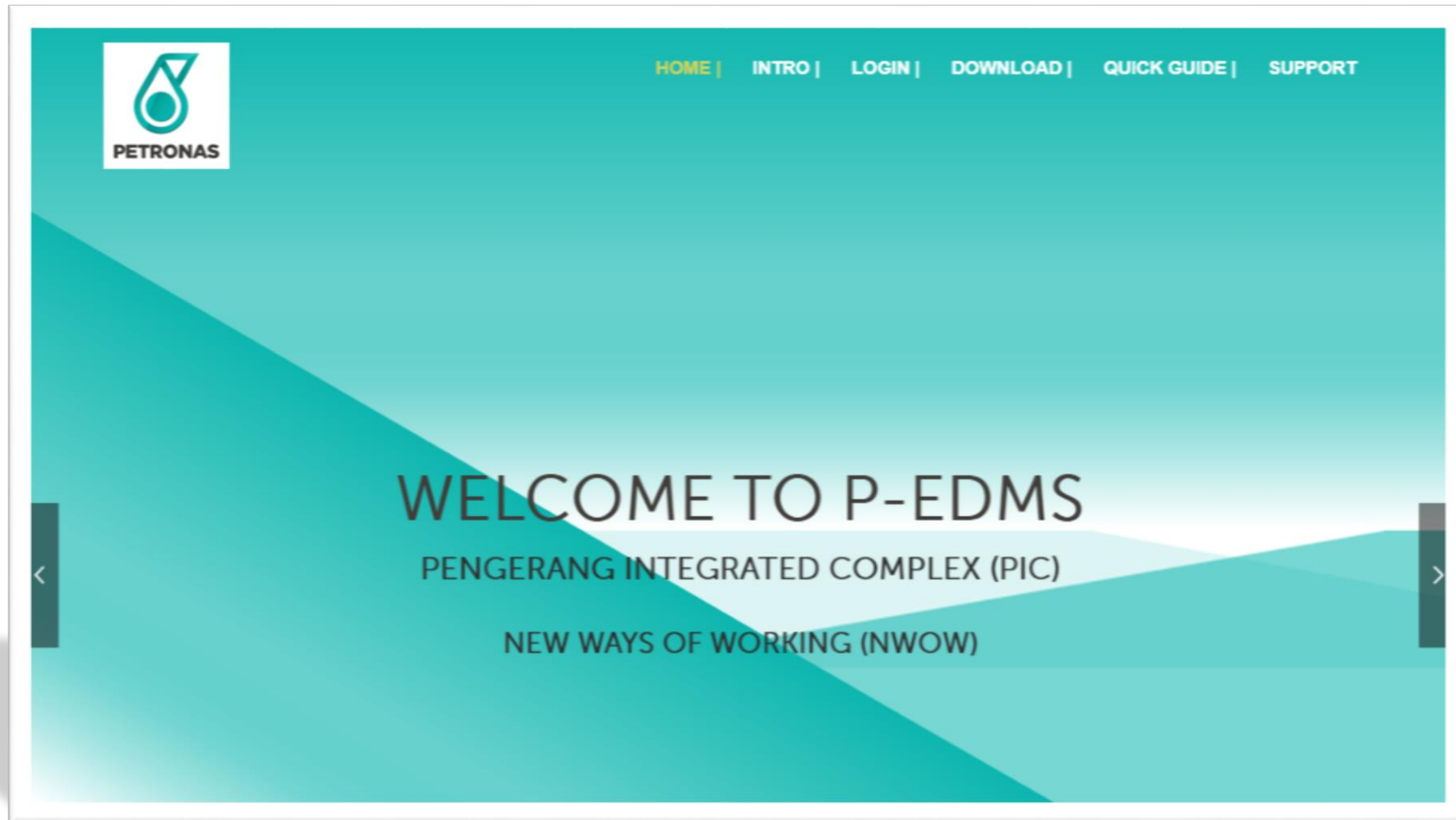
DOWNLOAD

Shortcut link to P-EDMS Installer for Applicable base



P-EDMS Home Page

User will navigate to P-EDMS Home Page once they click **HOME** shortcut menu.

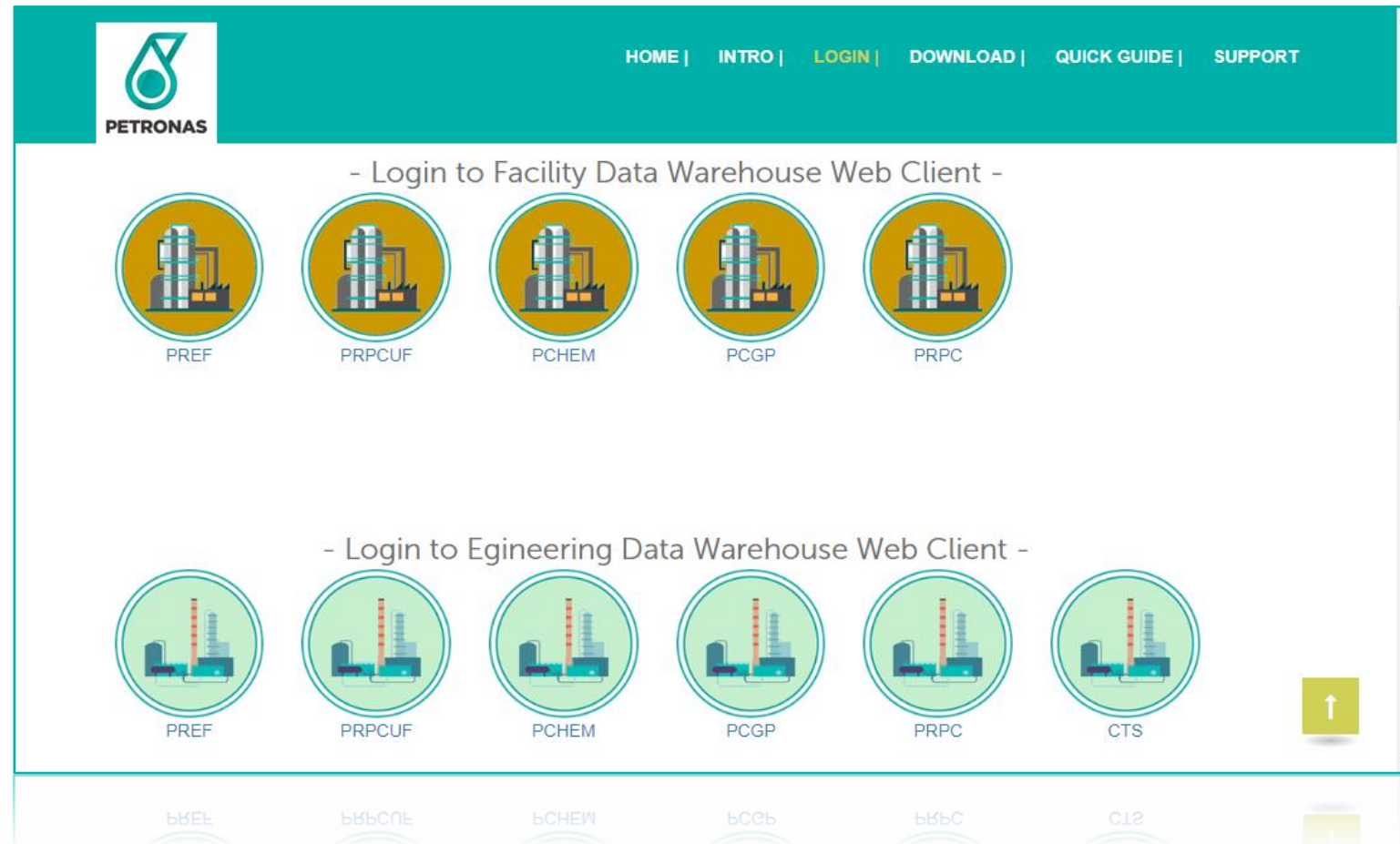


LOGIN

- 1 Getting Started with P-EDMS Web Client
- 2 Navigating the P-Document Review EDMS Web Client
- 3
- 4 Dashboard Overview






Login

User will navigate to **Facility Data Warehouse (FDW) Web Client** and **Engineering Data Warehouse (EDW) Web Client** page once they click **LOGIN** shortcut menu.










WEBCLIENT

Facility Data Warehouse (FDW)

 PREF	PENGERANG REFINING COMPANY SDN BHD
 PRPCUF	PRPC UTILITIES AND FACILITIES SDN BHD
 PCHEM	PENGERANG PETROCHEMICAL COMPLEX COMPANY SDN BHD
 PCGP	PETRONAS CHEMICAL ISONONANOL SDN BHD
 PRPC	PETRONAS REFINERY AND PETROCHEMICAL CORPORATION SDN BHD

Engineering Data Warehouse (EDW)

 PREF	PENGERANG REFINING COMPANY SDN BHD
 PRPCUF	PRPC UTILITIES AND FACILITIES SDN BHD
 PCHEM	PENGERANG PETROCHEMICAL COMPLEX COMPANY SDN BHD
 PCGP	PETRONAS CHEMICAL ISONONANOL SDN BHD
 PRPC	PETRONAS REFINERY AND PETROCHEMICAL CORPORATION SDN BHD
 CTS	COMPLETION TRACKING SYSTEM
 MTR	MASTER TAG REGISTER

DOWNLOAD

- 1 Getting Started with P-EDMS Web Client
- 2 Navigating the P-Document Review EDMS Web Client
- 3
- 4 Dashboard Overview

Download

User will navigate to Download page that contain PIC EDMS application installer once they click **Download** shortcut menu.

PETRONAS HOME | INTRO | LOGIN | **DOWNLOAD** | QUICK GUIDE | SUPPORT

- DOWNLOAD -

P-EDMS DTC

PEDMS-DTC-710_PIC (93MB)

.NET FRAMEWORK (65MB)

ACCESS REQUEST

P-EDMS MARKUP TOOLS

SP MARKUP (v7.1.1) (2.2GB)

NETWORK TEST

SPEED TEST

P-EDMS GUIDE

USER GUIDE (10MB)

DC GUIDE (14MB)

Demo Site

QUICK GUIDE

- 1 Getting Started with P-EDMS Web Client
- 2 Navigating the P-Document Review EDMS Web Client
- 3
- 4 Dashboard Overview

Quick Guide

User will navigate to P-EDMS Quick Guide page once they click **Quick Guide** shortcut menu.

Introduction to P-EDMS

P-EDMS manage Engineering Data throughout its lifecycle. It supports:

- Engineering Data & Document Management
- Engineering Changes (MOC)
- Engineering 3D/2D View
- Integration with other systems
- Mobility Access

User can login to P-EDMS via web-portal from anywhere with internet connection. Easy to search, navigate, view 3D model without installation

P-EDMS Web Client (for Computer)

P-EDMS Web Client is accessible on Computer via Google Chrome.

Note: If Google Chrome is not yet installed on Computer, please contact PET-ICT support at +603-23313333 / <ict.servicedesk@petronas.com.my>

P-EDMS Web Client (for Mobile)

You may utilize either Google Chrome to access P-EDMS on mobile devices.

P-EDMS SUPPORT

- 1 Getting Started with P-EDMS Web Client
- 2 Navigating the P-Document Review EDMS Web Client
- 3
- 4 Dashboard Overview

P-EDMS Support

User will navigate to P-EDMS Support contact page once they click **SUPPORT** shortcut menu.

PETRONAS

HOME | INTRO | LOGIN | DOWNLOAD | QUICK GUIDE | **SUPPORT**

PETRONAS

P-EDMS SUPPORT

ict.servicedesk@petronas.com (PETRONAS Staff)

p.edmssupport@petronas.com (Non-PETRONAS User)

8-351-3333 / +603 2331 3333

↑

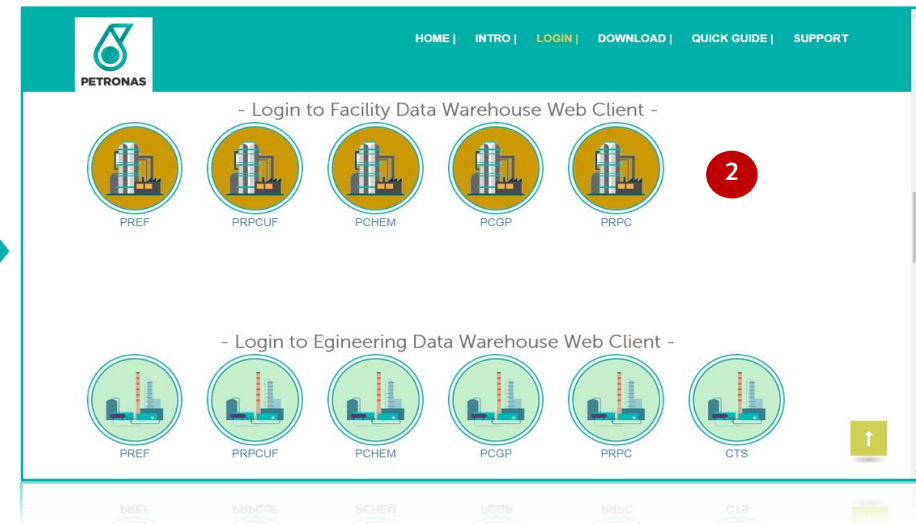
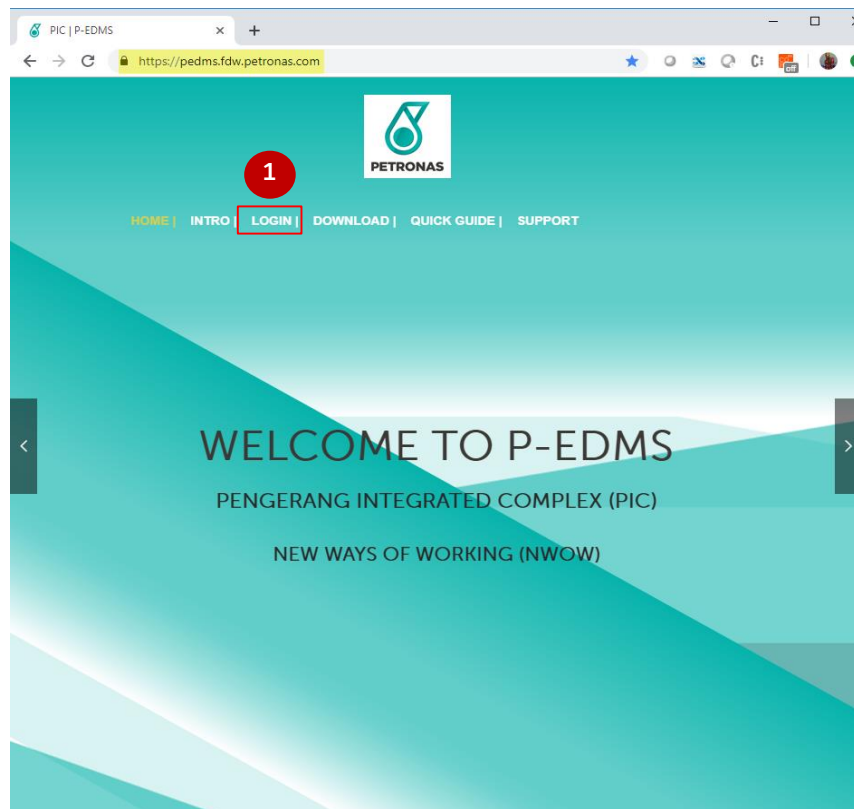
LOGGING IN

- 1 Getting Started with P-EDMS Web Client
- 2 Navigating the P-Document Review EDMS Web Client
- 3
- 4 Dashboard Overview

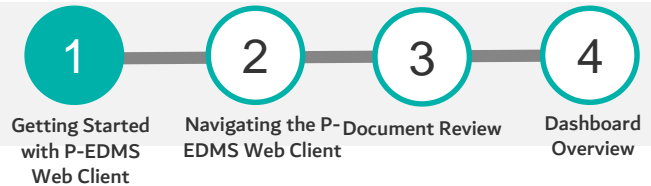
Logging In

1. Select Login shortcut menu in P-EDMS Home Page.
2. Select which plant you want to access (*Facility Data Warehouse (FDW)* and *Engineering Data Warehouse (EDW)*).

- Note:**
1. *Facility Data Warehouse (FDW)* contains only Engineering and Vendor data and documents that are required for normal operations, maintenance activities and additional information such as inspection or maintenance record.
 2. *Engineering Data Warehouse (EDW)* contains only Engineering Work Process data and document.



LOGGING IN



To Log In

3. On PIC P-EDMS web client, select login option to log in into PIC P-EDMS.

Note:

1. Login page for all site are same including FDW and EDW.
2. 2 options to login into PIC P-EDMS Web Client (Sign In with Local Authentication and Sign In Window Authentication).

PIC P-EDMS

PETRONAS

SIGN IN WITH LOCAL CREDENTIALS

Username

Password

Keep me signed in

SIGN IN

OR

SIGN IN WITH

2 Options to login into P-EDMS Web Client:

- a. Sign In with Local Credentials
- b. Sign In with Window Authentication

SIGN IN WITH LOCAL AUTHENTICATION

It is only applicable for user that do not have Petronas Credential.

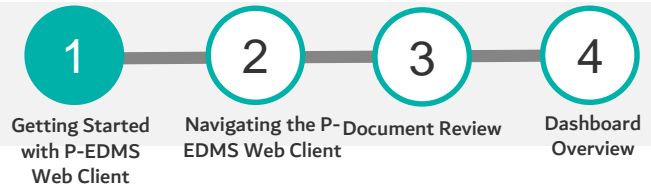
Note: Login credential will be provide by P-EDMS Administrator.

SIGN IN WITH WINDOW AUTHENTICATION

It is only applicable for user that have Petronas Credential.

URL : <https://pedms.fdw.petronas.com/>

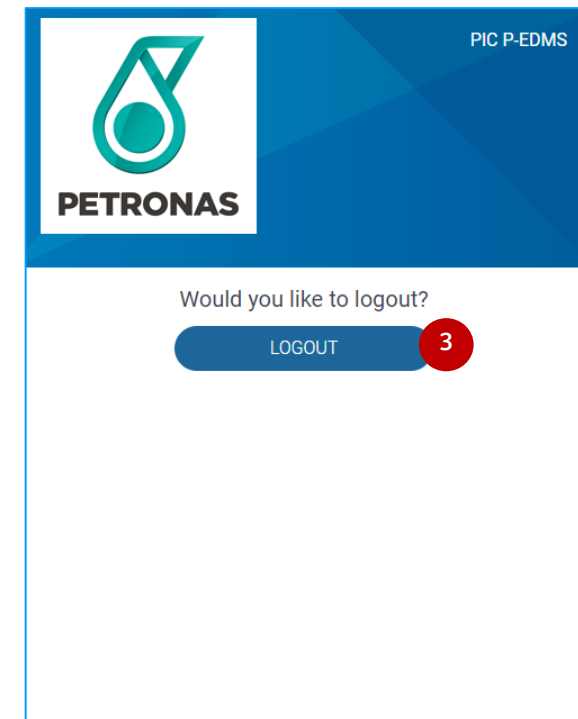
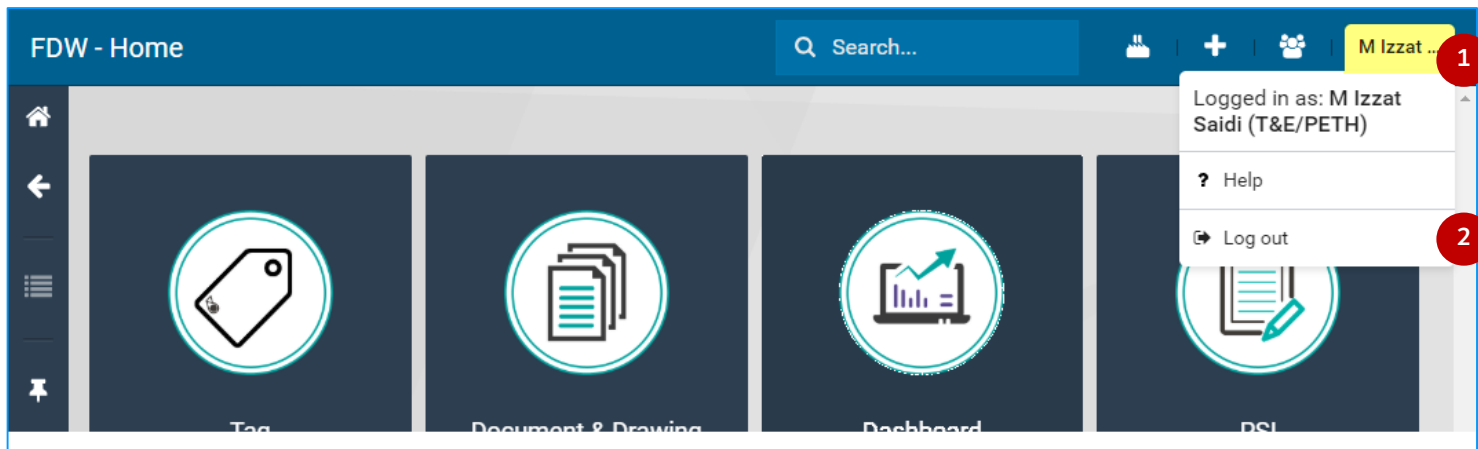
LOGGING IN



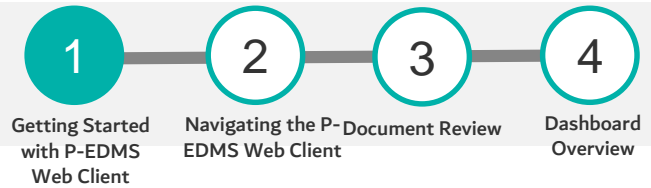
To Log Out

To prevent others from logging into P-EDMS profile/account, you should always use the Log Out command to close your session. Log out command is available under your name menu.

1. Click user name menu.
2. Click Log Out command
3. In Log out page, click **LOGOUT** to log out from P-EDMS Web Client.



SESSION EXPIRES



If Your Session Expires

P-EDMS Web Client have been configured with a session time-out that automatically logs user out if user session is inactive for a pre-configured period of time.

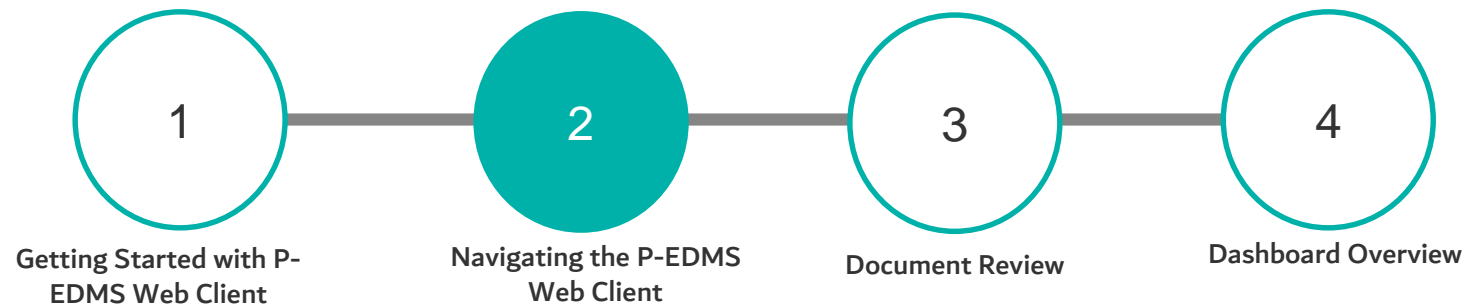
P-EDMS administrator also set a maximum session length, e.g., a maximum amount of time that user can be logged in, regardless of whether any activity occurs or not.

Therefore, user may periodically see the login screen, even if you are already logged in. If that happens, simply log in again and continue working.

NAVIGATING THE P-EDMS WEB CLIENT

LEARNING OBJECTIVE

Participants (all access role) will gain a basic understanding on how to navigate in P-EDMS Web Client



NAVIGATING THE P-EDMS WEB CLIENT

1

Getting Started with P-EDMS Web Client

2

Navigating the P-Document Review EDMS Web Client

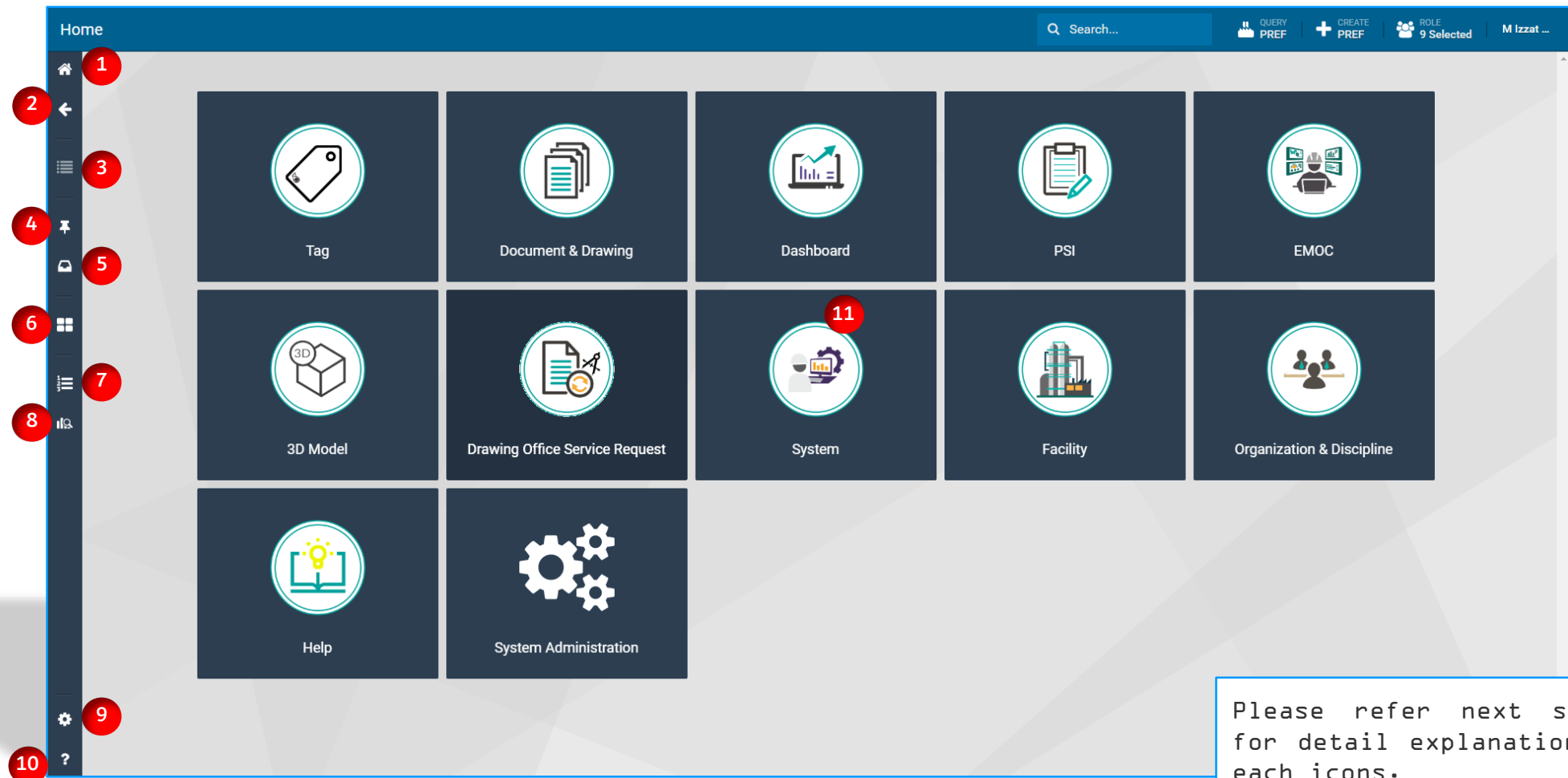
3

4

Dashboard Overview

Navigating the P-EDMS Web Client

When you log in you see a full screen view similar to the one shown below regardless of user access. The view might change when you accessing the P-EDMS Web Client via mobile phone.



Please refer next slide for detail explanation of each icons.

FIND YOUR WAY AROUND WEB CLIENT



Getting Started with P-EDMS Web Client



Navigating the P-EDMS Web Client



Document Review



Dashboard Overview

After logging into P-EDMS Web Client, you can quickly and easily navigate to your documents and data and perform your tasks. Refer to the following table when viewing the P-EDMS Web Client.

Number	Shortcut Button	Description
1	Home	Navigate to P-EDMS Web Client
2	Back	Back to previous page
3	Menu	Perform common operations on one or more selected objects
4	Pin	Provides quick access to items that you have saved, or pinned.
5	Notifications	Alerts you when a change has been made to an object that you have registered interest in.
6	Feature sets	Contains a configured set of functions that you can use to quickly access data.
7	To Do List	List all your tasks.
8	Advanced Search	Performs a detailed search using specific search criteria that includes classifications, their properties and parameters.
9	Setting	Allows you to set your configuration and role.
10	Help	Quick access to P-EDMS User Guides
11	Content Panel	The content of this area changes depending on what commands been used.

SEARCH: CENTRAL SEARCH



Getting Started with P-EDMS Web Client

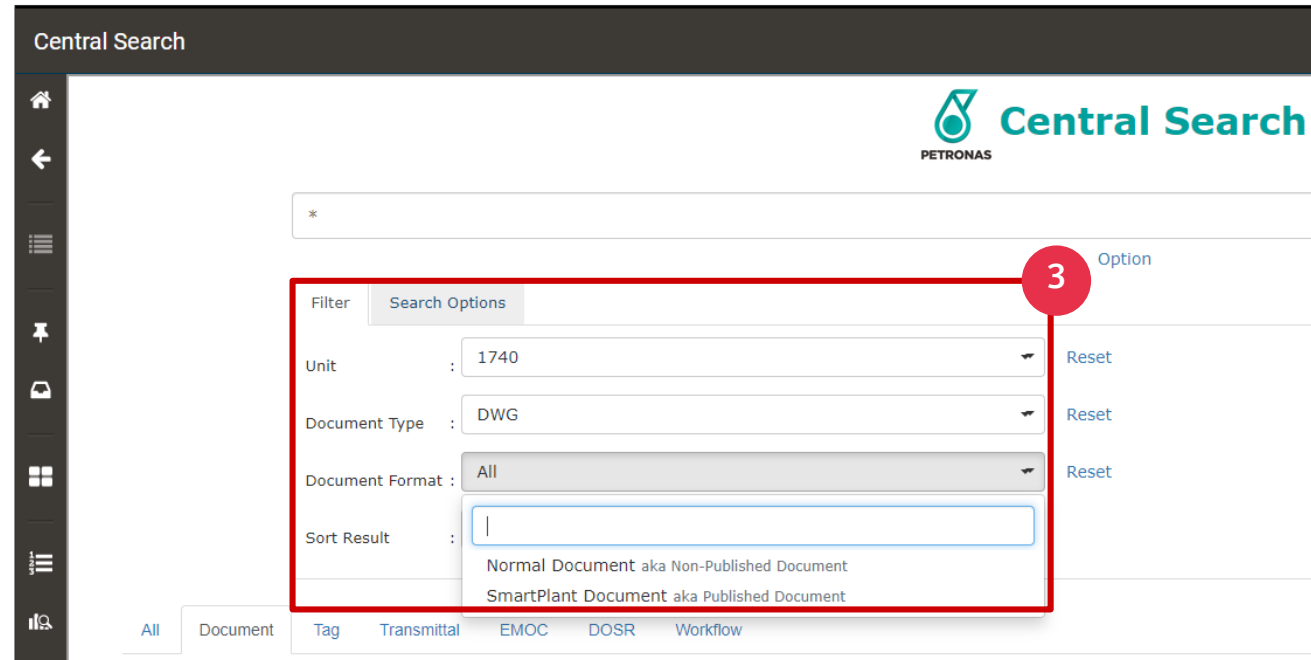
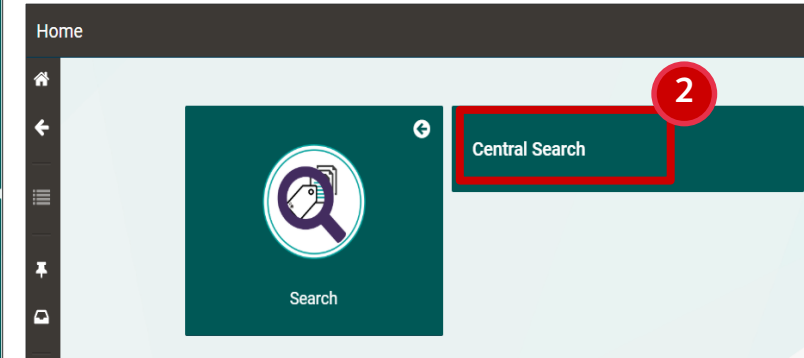
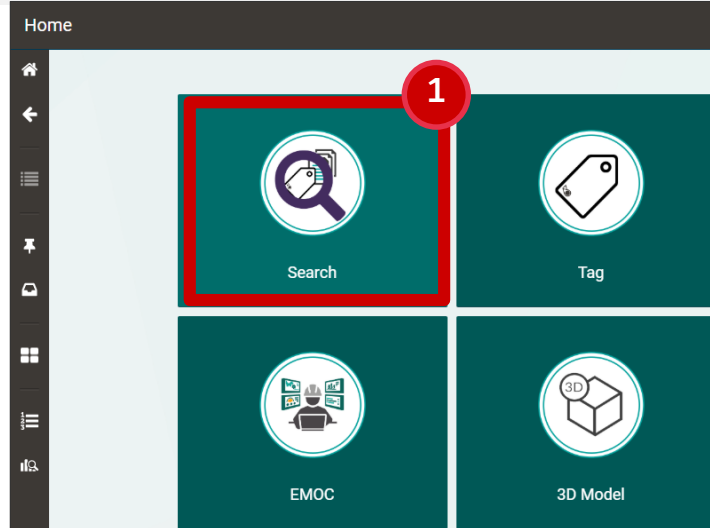
Navigating the P-Document Review EDMS Web Client

Dashboard Overview

STEPS

A. Central Search

1. Click Search
2. Click Central Search
3. Click Filter button (To add interest criteria's for filtration purpose)
4. Tick any interest criteria for filtration purpose.



SEARCH: SEARCH BAR



1
Getting Started
with P-EDMS
Web Client

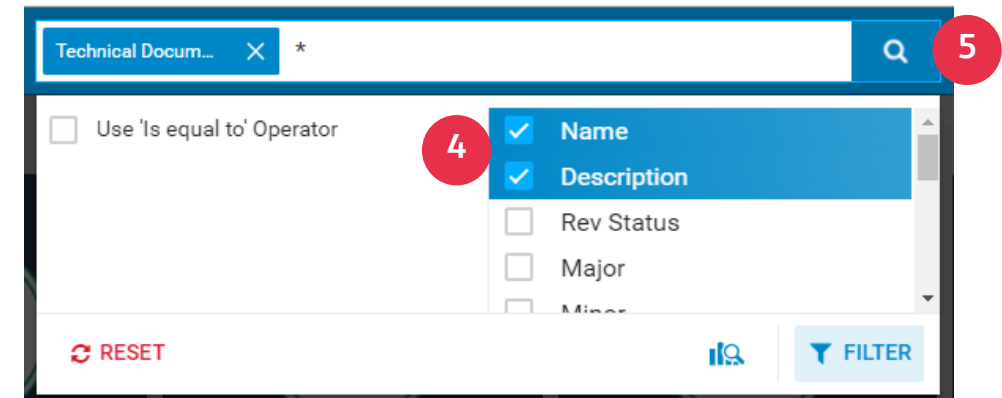
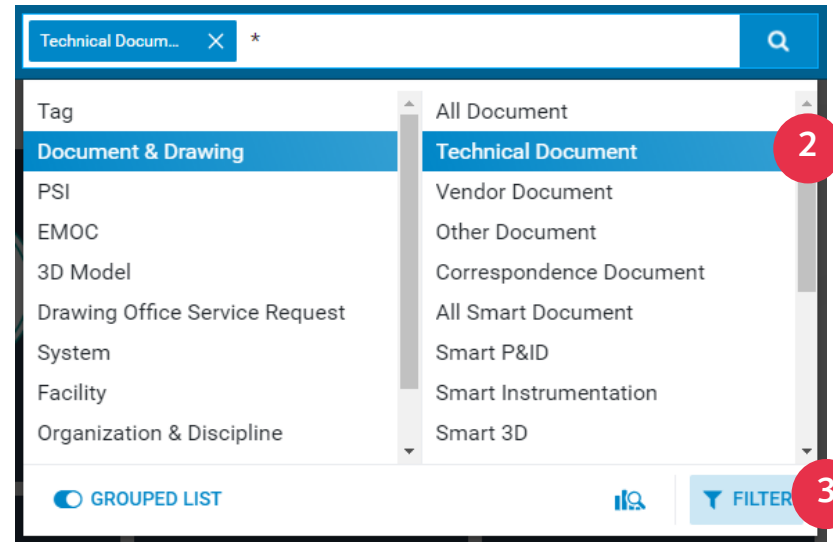
2
Navigating the P-Document Review
EDMS Web Client

3
Dashboard
Overview

STEPS

A. Search Bar

1. Click **Search Bar**
2. Select any category (ie: Document & Drawing > Technical Document)
3. Click **Filter** button (To add interest criteria's for filtration purpose)
4. Tick any interest criteria for filtration purpose.
5. Click **search** button to execute the search command.



SEARCH: FEATURE SET



Getting Started with P-EDMS Web Client

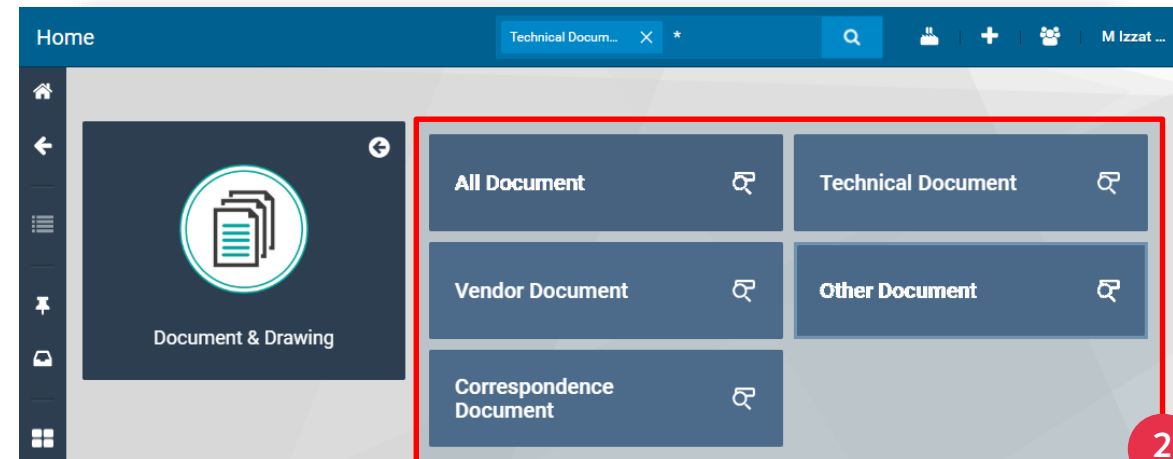
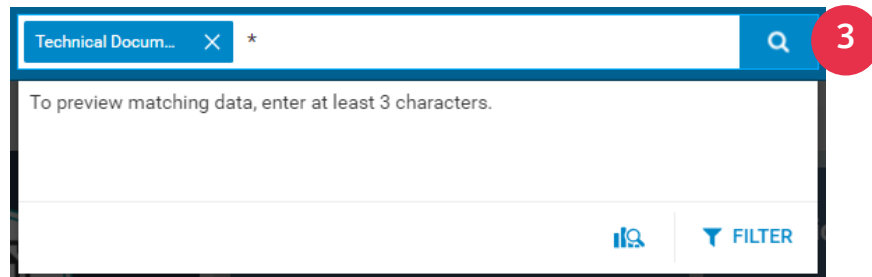
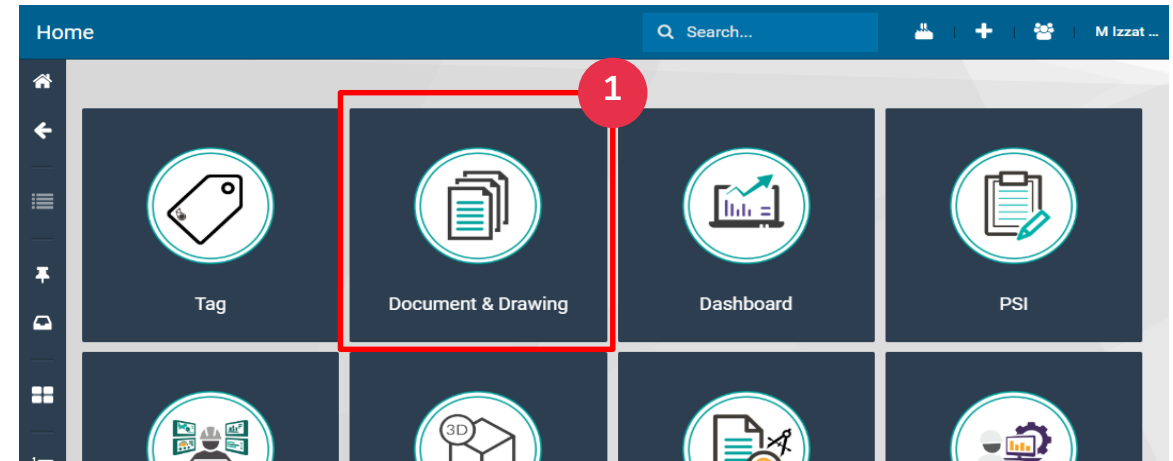
Navigating the P-Document Review EDMS Web Client

Dashboard Overview

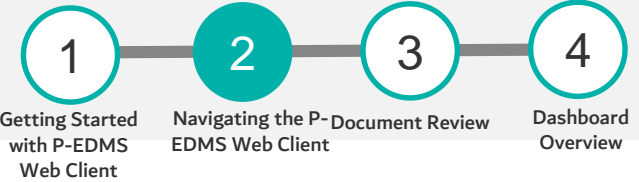
STEPS

B. Feature Set

1. Click Feature Set (ie: Document & Drawing)
2. Select any Feature Set module (ie: Technical Document)
3. You will be able to find data via pre configure filtration.



SEARCH: ADVANCE SEARCH



STEPS

C. Advance Search

1. Advance Search icon
2. Under **Types** category, select any interest criteria (ie: Document)
3. Under 'Select classification', select one of interest criteria (ie: TCH, TECHNICAL DOCUMENT)
4. Click OK.
5. To add additional criteria, select any interest criteria and click **ADD**. ie: A. General > 01 - Identification > Title/Description

The screenshot illustrates the 'Advanced Search' workflow. It shows a sidebar with a search icon (1), a list of document types where 'Document' is selected (2), a 'Select classification' dialog where 'TCH, TECHNICAL DOCUMENT' is chosen (3), and the 'OK' button (4). The final step shows a table of search criteria with an 'ADD' button (5).

Search for properties		
A. General	01 - Identification	Document Number
B. PBS	02 - Confidentiality	Title / Description
C. Revision	03 - Numbering & WBS	
D. Reference Number		
E. PSI		
F. Record Management		
G. Printing		

SEARCH: ADVANCE SEARCH



Getting Started with P-EDMS Web Client

Navigating the P-Document Review EDMS Web Client

Dashboard Overview

STEPS

- Type the criteria you want to search. ie: Commissioning
- Click **SEARCH** button.

Advanced Search

Search...

TYPES

Document

CLASSIFICATION

TCH, TECHNICAL DOCUMENT

CRITERIA

Search for properties

A. General
B. PBS
C. Revision
D. Reference Number
E. PSI
F. Record Management
G. Printing

Title / Description: Contains

COMMISSIONING

SEARCH

Name	Description	Rev Status
RAPID-P016A-IPMT-VWM-LTR-0302	SUB-CONTRACTOR Approved for Supply, Installation, Testin...	No Revision Status
RAPID-P016A-IPMT-VWM-LTR-0313	SUB-CONTRACTOR Approved for Supply, Installation, Testin...	No Revision Status
RAPID-P016A-IPMT-VWM-LTR-0630	RAPID-PMT-HSE-SI-0001-0110 - Commissioning Permit To ...	No Revision Status
RAPID-P016A-IPMT-VWM-LTR-0632	RAPID-PMT-PMG-SI-0001-0010 - Commissioning HSE Plan (...)	No Revision Status
RAPID-P016A-IPMT-VWM-LTR-0646	Utilities for Pre-Commissioning, Commissioning and Start ...	No Revision Status
RAPID-P016A-IPMT-VWM-LTR-0647	RAPID-P0024-PMT-CMM-SI-0001-0002 - List of Common Co...	No Revision Status
RAPID-P016A-PMT-VWM-LTR-0720	CHANGE ORDER NO 2 - SUPPLY OF PRE-COMMISSIONING C...	No Revision Status
RAPID-P016A-PMT-VWM-LTR-0723	UTILITIES DEMAND PROFILE FOR PRE-COMMISSIONING A...	No Revision Status
RAPID-P016A-VWM-CMM-PEP-0011	PRE-COMMISSIONING AND COMMISSIONING EXECUTION...	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PEP-0012	COMMISSIONING AND START-UP ROLES AND RESPONSIBIL...	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PEP-0013	COMMISSIONING AND START-UP SEQUENCE	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PEP-0021	COMMISSIONING HSE PLAN	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PEP-0033	LEVEL 1 PRE-COMMISSIONING AND COMMISSIONING SCH...	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PEP-0036	PRE-COMMISSIONING INSPECTION AND TEST PLAN	IFR, Issued for Revie...
RAPID-P016A-VWM-CMM-PRC-0010	COMMISSIONING SPARE PHILOSOPHY	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PRC-0019	MANAGEMENT OF SUB CONTRACTORS AND VENDORS DU...	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PRC-0027	COMMISSIONING WASTE MANAGEMENT PLAN	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PRC-0038	ELECTRICAL PRE COMMISSIONING PROCEDURE	IFR, Issued for Revie...
RAPID-P016A-VWM-CMM-PRC-0041	COMMISSIONING INSPECTION AND TEST PLAN	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PRC-0043	TELECOM COMMISSIONING PROCEDURE	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PRC-0065	ELECTRICAL PRE COMMISSIONING AND COMMISSIONING ...	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PRC-0066	ELECTRICAL PRE COMMISSIONING AND COMMISSIONING ...	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PRC-0067	ELECTRICAL PRE COMMISSIONING AND COMMISSIONING ...	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PRC-0068	ELECTRICAL PRE COMMISSIONING AND COMMISSIONING ...	IFE, Issued for Execut...
RAPID-P016A-VWM-CMM-PRC-0069	ELECTRICAL PRE COMMISSIONING PROCEDURE AND COM...	IFE, Issued for Execut...

VIEW: TAG



Getting Started with P-EDMS Web Client

Navigating the P-Document Review EDMS Web Client

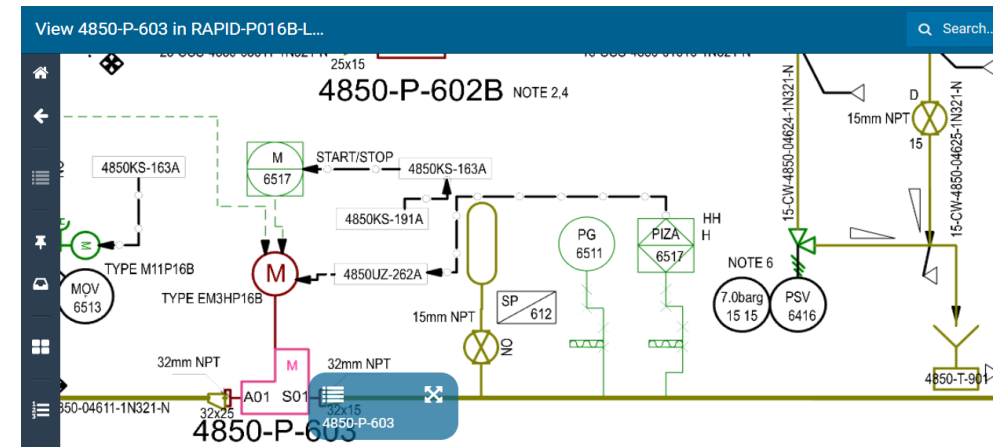
Dashboard Overview

STEPS

Viewing Tag in Drawing

1. To view the tag in the drawing/document, you need to select **Action Menu** button and click 'View Item in Drawing'.
2. If a tag is linked to multiple documents, a pop-up to choose the drawing appears. Drawings opened with the tag item highlighted.

Name	Description	Tool	Tag T
4850-P-018A	CLARIFIED WATER SAMPLING PUMP	PID,SPIOP	P
4850-P-019B	CLARIFIED WATER SAMPLING PUMP	PID,SPIOP	P
4850-P-019A	CLARIFIED WATER SAMPLING PUMP	PID,SPIOP	P
4850-P-018B	CLARIFIED WATER SAMPLING PUMP	PID,SPIOP	P
4850-P-602A	SODIUM HYDROXIDE DOSING PUMPS (STW)	PID,SPIOP	P
4850-P-603	SODIUM HYDROXIDE NEUTRALISATION PUMP	PID,SPIOP	P
4850-P-601B	SODIUM HYDROXIDE DOSING PUMP (RW)	PID,SPIOP	P
4850-P-602B	SODIUM HYDROXIDE DOSING PUMP (STW)	PID,SPIOP	P
4850-P-601A	SODIUM HYDROXIDE DOSING PUMPS (RW)	PID,SPIOP	P
4850-P-021A	FILTERED WATER SAMPLING PUMP	PID,SPIOP	P
4850-P-020A	FILTERED WATER SAMPLING PUMP	PID,SPIOP	P



VIEW: TAG

STEPS

Viewing Tag in Model

1. To view the tag in the drawing/document, you need to select Action Menu button and click 'View Item in Model'.
2. Model opened with the tag item highlighted.

The screenshot displays the P-EDMS Web Client interface. At the top, a search bar shows 'Equipment' and '*4850-P-*'. Below the search bar, a table lists equipment items. The 'View Item in Model' button in the left-hand menu is highlighted with a red box and a red arrow labeled '2'. The table row for '4850-P-603' is highlighted with a red box and a red arrow labeled '1'. To the right, a 3D model viewer shows a cyan pump component labeled '4850-P-603'. A details panel for '4850-P-603' is open, showing the following information:

4850-P-603	
Object	
Name:	4850-P-603
Description:	SODIUM HYDROXIDE NEUTRALISATION PUMP
Object Configuration:	PL_PRPCUF
Creation Date:	16/10/2018 21:25:35
Creation User:	PETRONAS\ahmadfairuz.isa
Domain UID:	CDW
Last updated date:	16/10/2018 00:16:46
Termination Date:	01/01/10000 07:59:59
Termination User:	
ISPCFDW3DSystemHierarchy	
System path:	PRPCP_16B\4\4800\4850\07-Chemical Building\07-Equip-Mech\07-Equip-Mech
Equipment	
Type (top-level):	Process equipment
Type (level 1):	Material transfer equipment

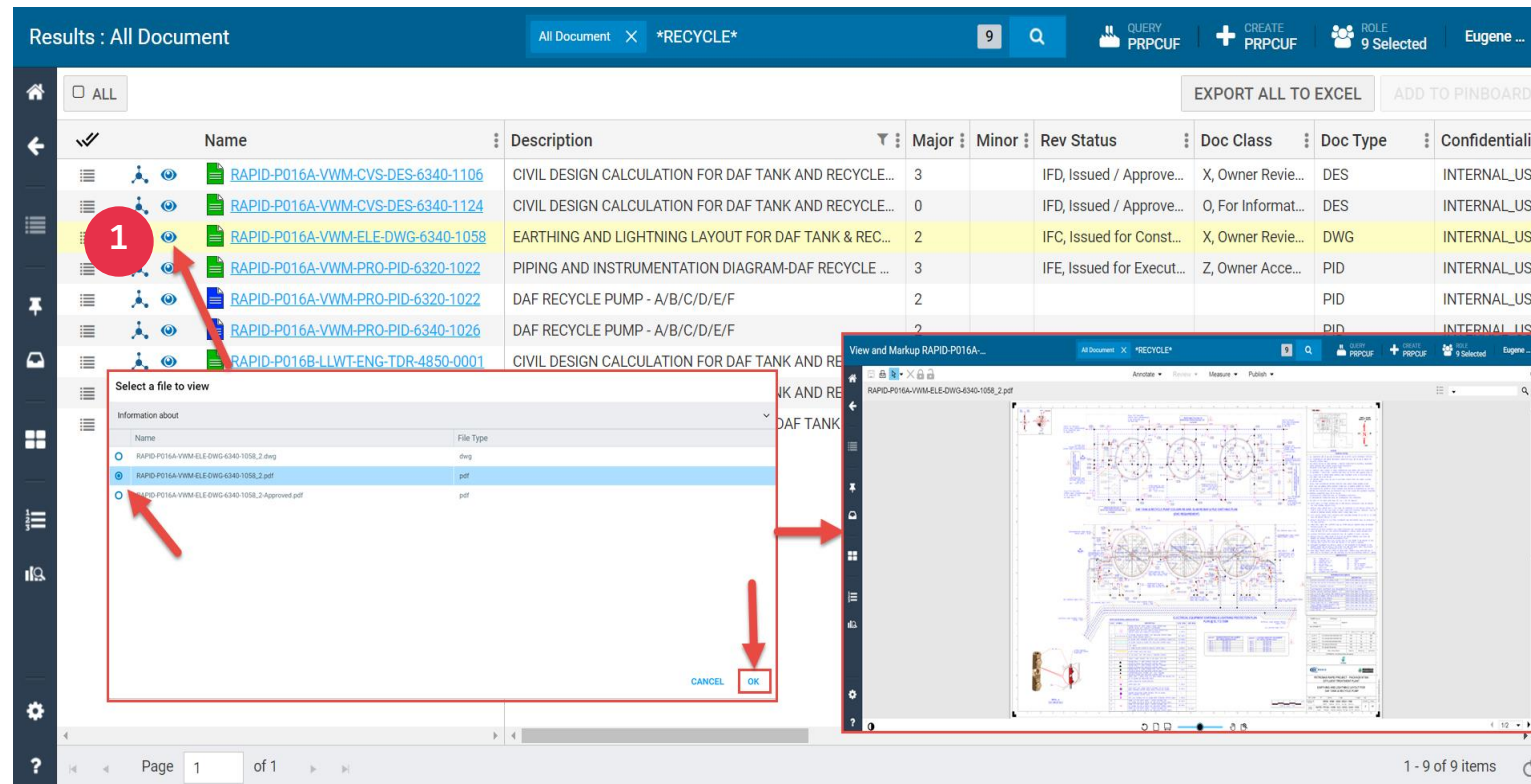
VIEW: DOCUMENT

STEPS

Viewing Document

1. To view the documents, click on the View button () in the content panel.

Note: If the Documents may contains several file attachments, a window will appear prompting the user to choose which file to be viewed.



The screenshot displays the P-EDMS Web Client interface. At the top, the header shows 'Results: All Document' and a search bar with the query '*RECYCLE*'. Below the header is a table of documents with columns for Name, Description, Major, Minor, Rev Status, Doc Class, Doc Type, and Confidentiality. A red circle with the number '1' highlights the 'View' button (eye icon) in the first row of the table. A dialog box titled 'Select a file to view' is open, showing a list of files with their names and file types. A red arrow points from the 'View' button in the table to the dialog box. Another red arrow points from the 'OK' button in the dialog box to a preview window on the right, which displays a technical drawing of a DAF tank and recycle pump.

Name	Description	Major	Minor	Rev Status	Doc Class	Doc Type	Confidentiality
RAPID-P016A-VWM-CVS-DES-6340-1106	CIVIL DESIGN CALCULATION FOR DAF TANK AND RECYCLE...	3		IFD, Issued / Approve...	X, Owner Revie...	DES	INTERNAL_USI
RAPID-P016A-VWM-CVS-DES-6340-1124	CIVIL DESIGN CALCULATION FOR DAF TANK AND RECYCLE...	0		IFD, Issued / Approve...	O, For Informat...	DES	INTERNAL_USI
RAPID-P016A-VWM-ELE-DWG-6340-1058	EARTHING AND LIGHTNING LAYOUT FOR DAF TANK & REC...	2		IFC, Issued for Const...	X, Owner Revie...	DWG	INTERNAL_USI
RAPID-P016A-VWM-PRO-PID-6320-1022	PIPING AND INSTRUMENTATION DIAGRAM-DAF RECYCLE ...	3		IFE, Issued for Execut...	Z, Owner Acce...	PID	INTERNAL_USI
RAPID-P016A-VWM-PRO-PID-6320-1022	DAF RECYCLE PUMP - A/B/C/D/E/F	2				PID	INTERNAL_USI
RAPID-P016A-VWM-PRO-PID-6340-1026	DAF RECYCLE PUMP - A/B/C/D/E/F	2				PID	INTERNAL_USI
RAPID-P016B-LLWT-ENG-TDR-4850-0001	CIVIL DESIGN CALCULATION FOR DAF TANK AND RE...					PID	INTERNAL_USI

VIEWING DETAIL OF DATA



Getting Started with P-EDMS Web Client

Navigating the P-Document Review

Dashboard Overview

STEPS

Viewing detail of data

1. To view detail of search data, you can click on hyperlink of data (Document or tag).

Results : All Document

All Document × *COMMISSIONING*

LIST EDIT EXPORT ALL TO EXCEL ADD TO PINBOARD

Name	Description	Rev Status
RAPID-P016A-IPMT-VWM-LTR-0300	CONTRACTOR Approved for Supply, Installation, Testin...	-, No Revision Status
RAPID-P016A-IPMT-VWM-LTR-0313	CONTRACTOR Approved for Supply, Installation, Testin...	-, No Revision Status
RAPID-P016A-IPMT-VWM-LTR-0630	RAPID-PMT-HSE-SI-0001-0110 - Commissioning Permit To ...	-, No Revision Status
RAPID-P016A-IPMT-VWM-LTR-0632	RAPID-PMT-PMG-SI-0001-0010 - Commissioning HSE Plan (...)	-, No Revision Status
RAPID-P016A-IPMT-VWM-LTR-0646	Utilities for Pre-Commissioning, Commissioning and Start ...	-, No Revision Status

RAPID-P016A-VWM-C...

All Document × *prc*

A. General B. PBS C. Revision D. Reference Number E. PSI F. Record Management

G. Printing

01 - Identification

Document Number: RAPID-P016A-VWM-CMM-PRC-0074

Title / Description: ELECTRICAL PRE COMMISSIONING PROCEDURE AND COMMISSIONING PROCEDURE-EARTHING AND LIGHTNING PROTECTION

02 - Confidentiality

Confidentiality: INTERNAL_USE

03 - Numbering & WBS

ENS Code: RAPID, PRPC UTILITIES AND FACILITIES SDN. BHD.

Unit Group: P016A, EFFLUENT TREATMENT PLANT (ETP)

Originator:

Discipline: CMM, Commissioning

Sheet Number (###):

Document Class: Z

is Vendor Doc?: No

PO Number:

System State: RESERVED

Tag:

Document Type (Level 1): Document types

Document Type (Level 2): TCH, TECHNICAL DOCUMENT

Document Type (Level 3): PRC, Procedures and Guidelines

Primary Classification: PRC, Procedures and Guidelines

INFOMAP



1 Getting Started with P-EDMS Web Client


2 Navigating the P-Document Review EDMS Web Client

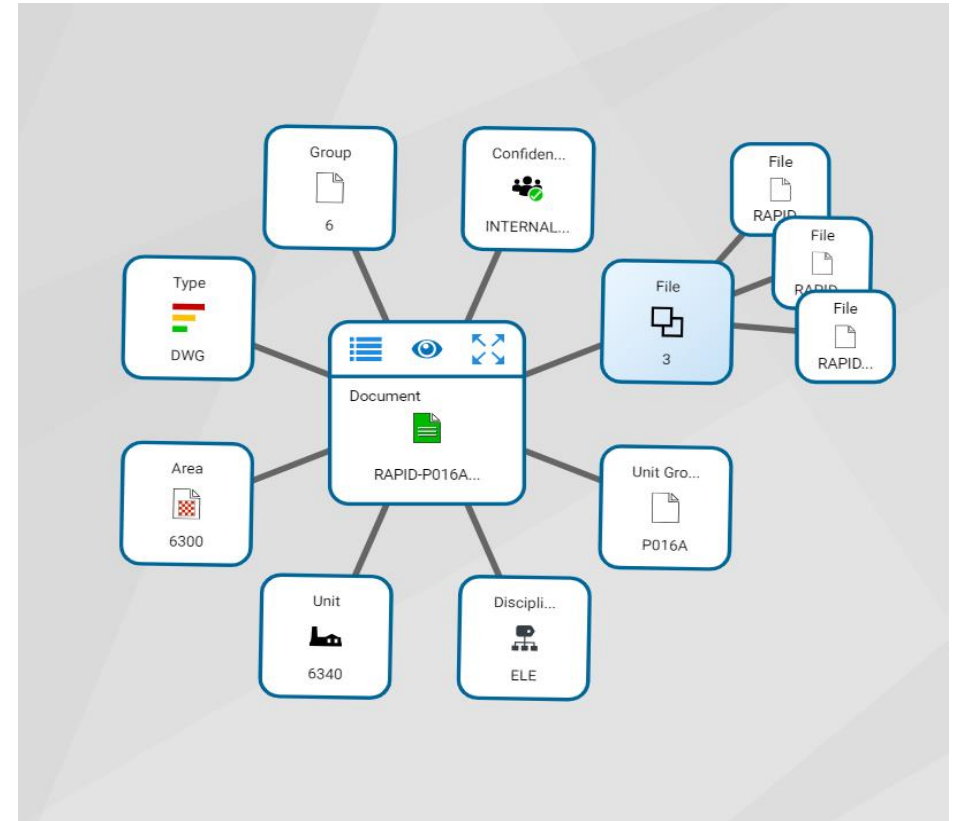
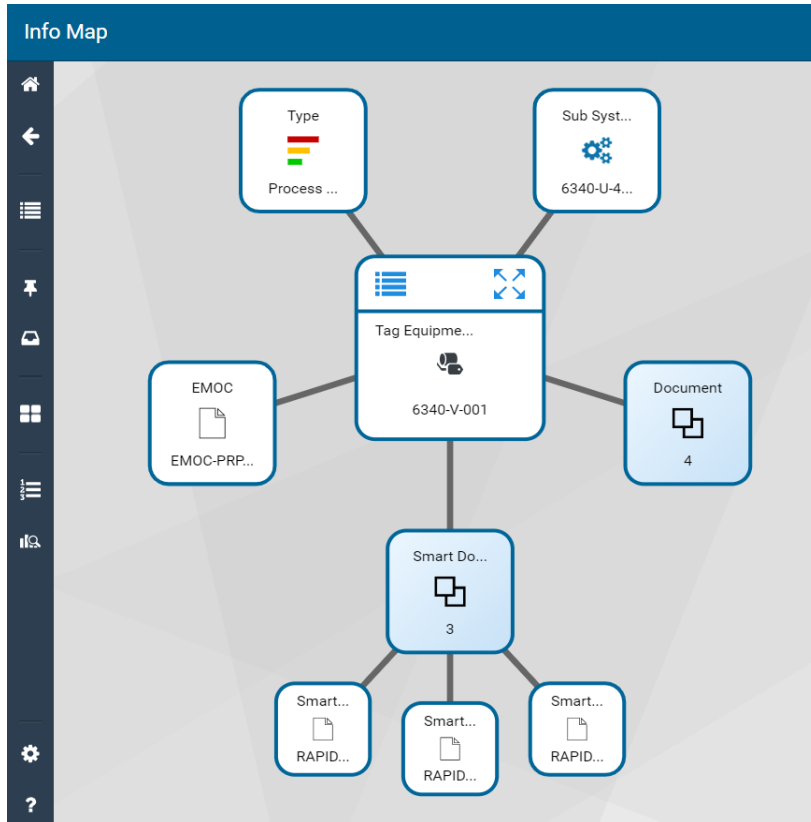
3

4 Dashboard Overview

STEPS

Infomap

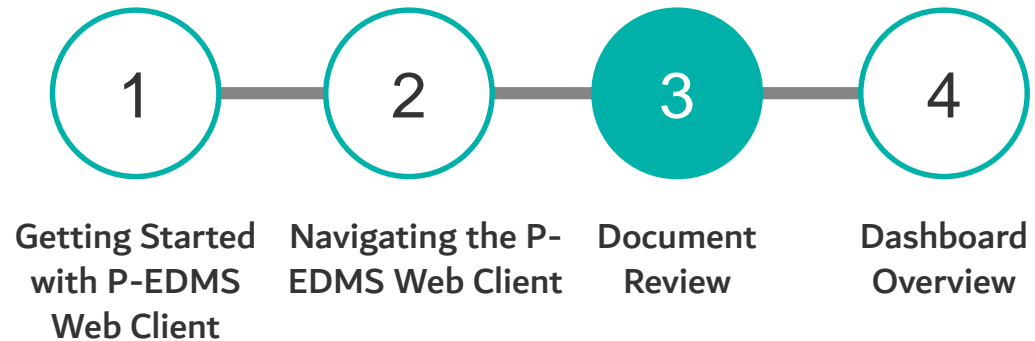
1. Select a document and click on the Show Info Map icon () to view the Info Map, which shows relationships for the object.



DOCUMENT REVIEW

LEARNING OBJECTIVE

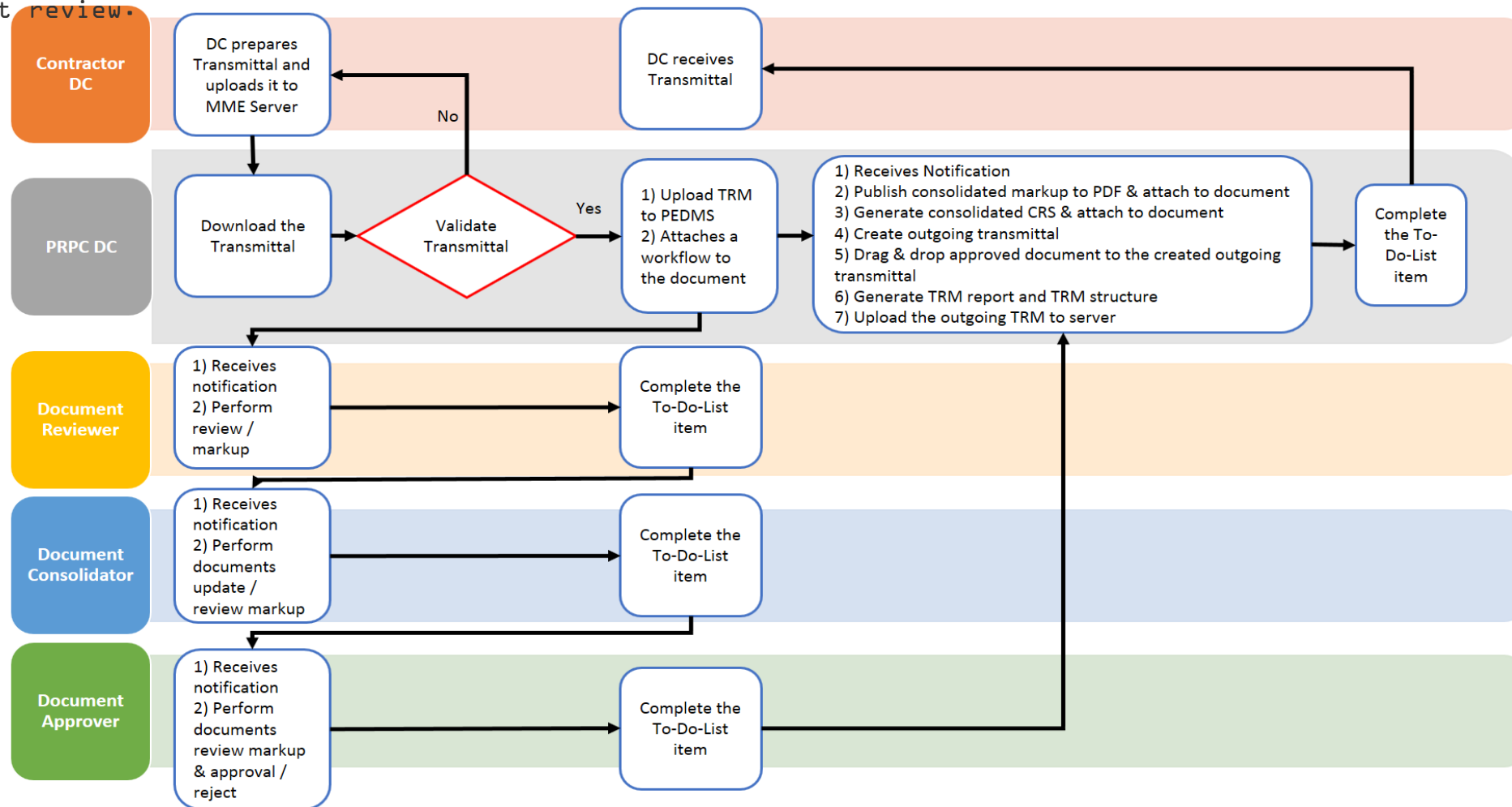
Participants (all access roles) will gain a basic understanding on completing To Do List for Document Review



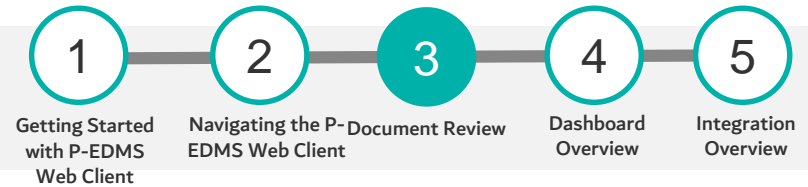
LIFE CYCLE OF DOCUMENT

OVERVIEW OF DOCUMENT REVIEW WORK PROCESS

Flow chart below shows you general project work process of document review.



REVIEW THE DOCUMENT



STEPS

Review the document (To Review)

1. Engineers will receive email notification from P-EDMS if there is document for review. Click hyperlink in the email notification to navigate automatically to To-Do-List window.
2. In the To Do List window, select **Action** menu icon
3. Click **View and Markup** icon to view the document.
4. Create a Markup (Refer *Document Markup Layer section*) layer if to add comment or markup to this document.
5. Save a Markup layer (Refer *Save Markup section*) with Item owning group is **INTERNAL_USE** and Type of markup is **Reviewed**.

PS P-EDMS Support (T&E/PETH)
FYA: (2/7) - TO REVIEW, PRPCUF-CTMS-ACE-APC-ALT-4300-0002, TEST DOCUMENT

P-EDMS Workflow Notification

Dear Sample email notification from P-EDMS

A document is submitted to P-EDMS for your action ((2/7) - TO REVIEW):

You can access the document from the link below:

Document Number	Title	Rev	Status	Class
PRPCUF-CTMS-ACE-APC-ALT-4300-0002	TEST DOCUMENT	AO	IFR	X

Note: This document is due on 11/30/2018. Click [here](#) 1 workflow task.

Thank you

PRPC UTILITIES AND FACILITIES SDN. BHD.

PETRONAS Engineering Data Management System (P-EDMS™)

[THIS IS SYSTEM AUTO Do not reply to this em regarding PETRONAS

To Do List

Search...

ALL EXPORT ALL T

Name	Workflow Item
CH (01/33) Initiate Non-Standard Repair	EMOC-PRPCUF-9810-2019-0001
CH (01/34) Initiate Temporary Repair	EMOC-PRPCUF-4850-2019-0011
CH (01/33) Initiate Non-Standard Repair	EMOC-PRPCUF-4850-2019-0012
(2/7) - TO REVIEW	PRPCUF-CTMS-ACE-APC-ALT-4300

2

To Do List

Search...

ALL EXPORT ALL TO E

(2/7) - TO REVIEW

- Actions
 - Manage Relationship
 - TDL Action
- Relationships
 - Show Workflow (1)
 - Show Workflow Object (1)

PRPCUF-CTMS-ACE-APC-...

3

- Document
- Edit
- Files

DOCUMENT MARKUP LAYER



Getting Started with P-EDMS Web Client

Navigating the P-Document Review EDMS Web Client

Dashboard Overview

MARKUP LAYERS

Markup Layer Overview

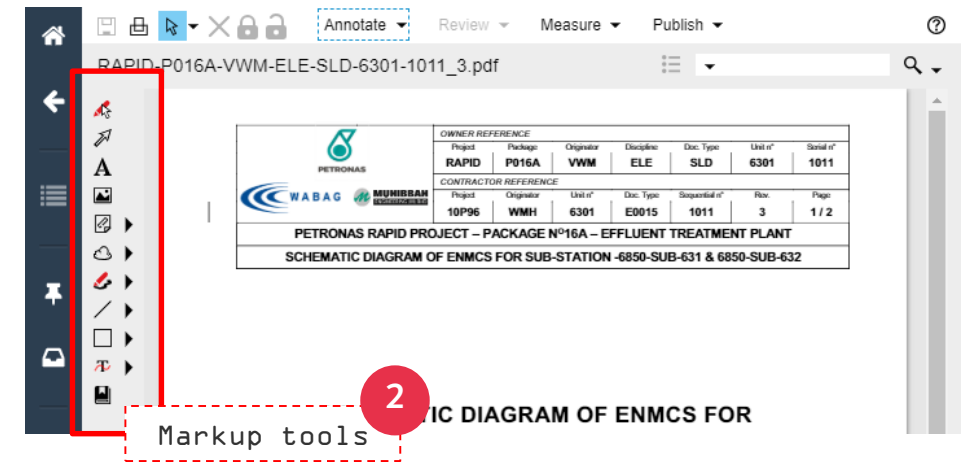
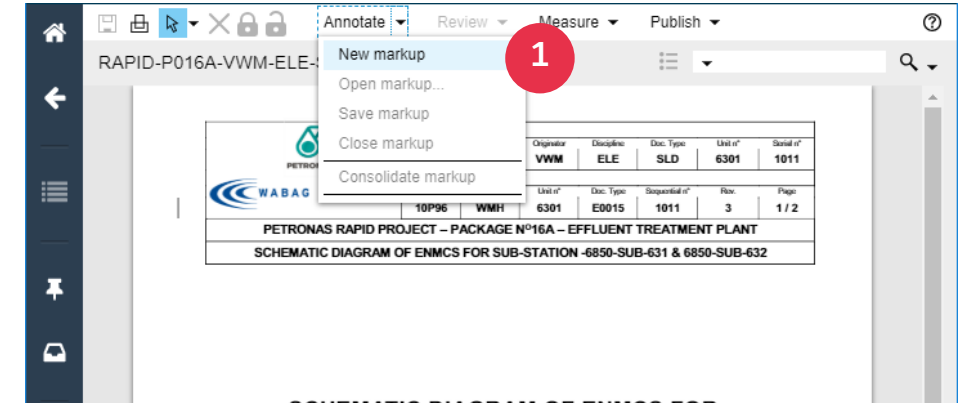
Creating markup layers for a file is a way of adding non-destructive annotation on an active graphic display window that contains a view of the file. The markup layers acts like a piece of clear plastic on top of a drawing or document.

STEPS

Creating a Markup File

User required to open/view the document before can proceed with creating a markup layer. To enter Annotate mode and create a new markup file:

1. Choose the **Annotate** button and then select **New Markup** from the list.
2. Select the desired markup tool from the **Annotate tools**.
Once created, you can save markup layer to be reviewed with the current file and or publish the file as a new rendition in PDF or TIFF with the markup layer permanently overlaid.



ANNOTATE TOOLS

OVERVIEW OF ANNOTATE TOOLS

Annotate Tools

Definition of each command of markup tool.

Select

Select command allow you to select a single markup layer and perform an operation such as changing the colour or delete the markup.

Text

Using the Text tool allows you to place text directly on the viewing image, as opposed to adding a Changemark annotation.

Image

You can use this tool to insert external images (JPG, GIF or PNG) into your current markup or redaction layers. Once selected, images can be resized and positioned where you want them.

Cloud

You can draw clouds using the Cloud button.

Sketch polygon

Use the Sketch button to draw freehand shapes and use Sketch polygon button to create filled freehand shapers.

Arrow

Arrow command allow you to draw an arrow.

Changemark

The Changemark command allow you to place a note to a document or viewing image.

(Note that additional combined Changemark tools are available from the Annotate toolbar including **Cloud with Changemark Note**, **Arrow with Changemark Note**, **Highlight with Changemark Note**, **Highlight Text with Changemark Note**, **Strikethrough with Changemark Note**, and **Checkview**).

Line

Use Line command to draw straight line in any directions.

Rectangle

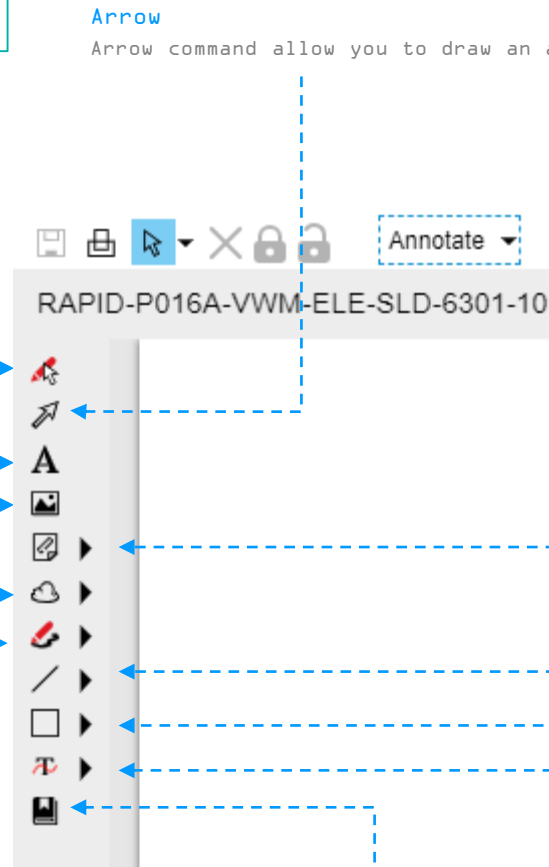
The solid shapes group allows you to draw solid (filled) or hollow (unfilled) shapes using the following markup tools.

Strikeout

You can use the following text editing commands to strikeout, strikethrough, highlight and underline text contained in a document.

Bookmark

Bookmark command allow you to set one or more custom bookmarks in a document markup file.



DELETE MARKUP

1

Getting Started with P-EDMS Web Client

2

Navigating the P-Document Review EDMS Web Client

3

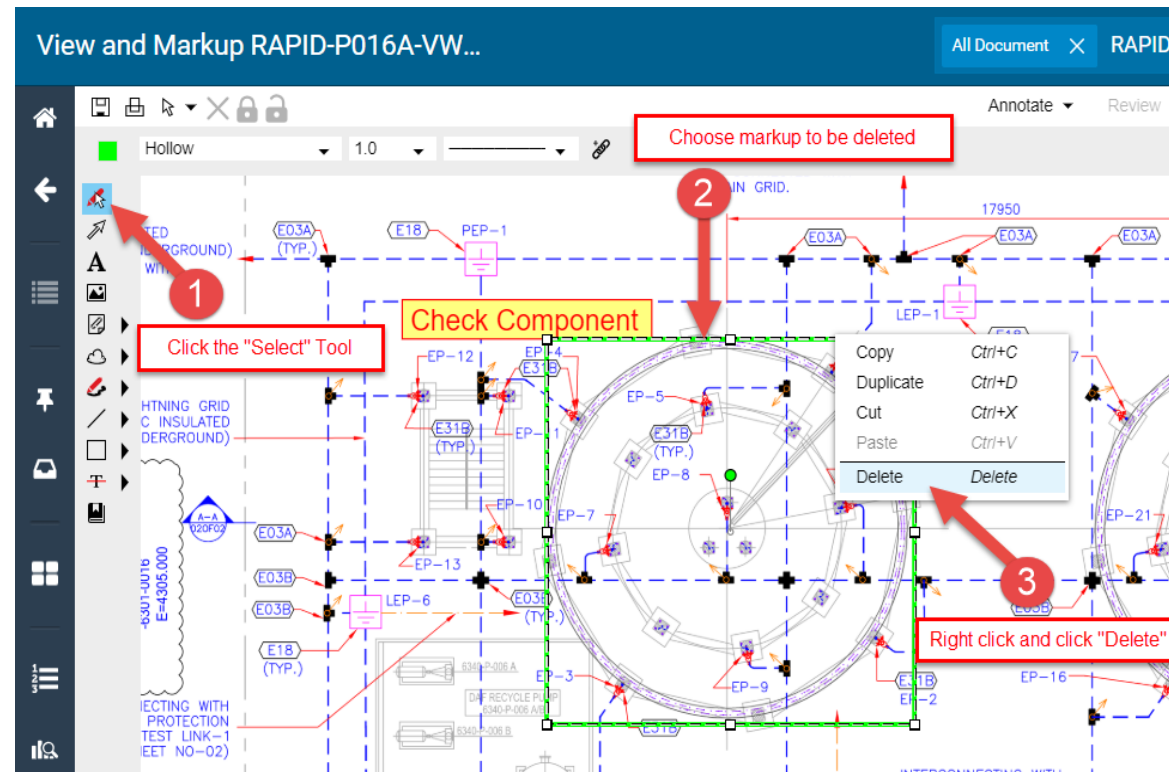
4

Dashboard Overview

STEPS

To delete a markup file

1. Click on Select command to activate it.
2. Click on the markup object
3. Press Delete button on your keyboard or right click on the markup object and select Delete.



SAVE MARKUP

1

Getting Started with P-EDMS Web Client

2

Navigating the P-Document Review EDMS Web Client


3

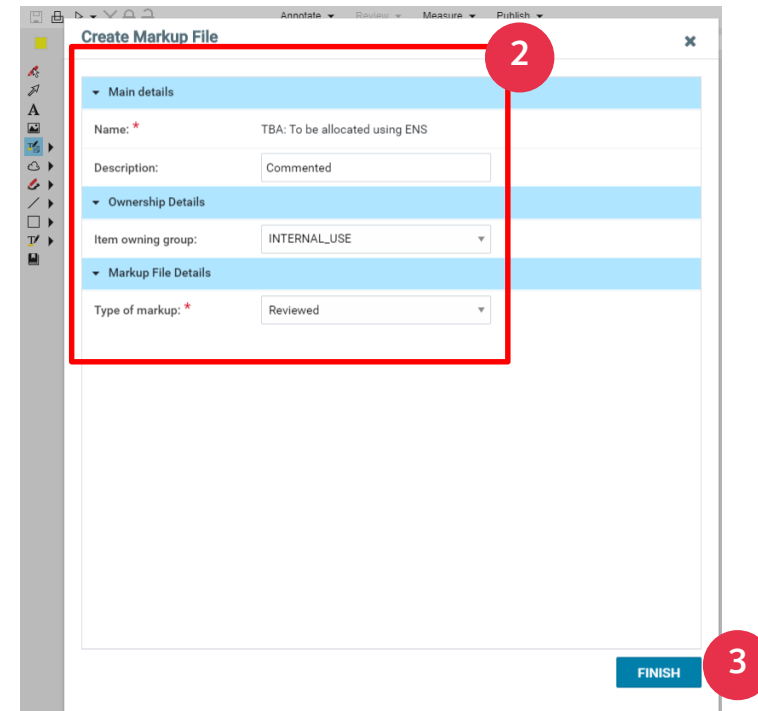
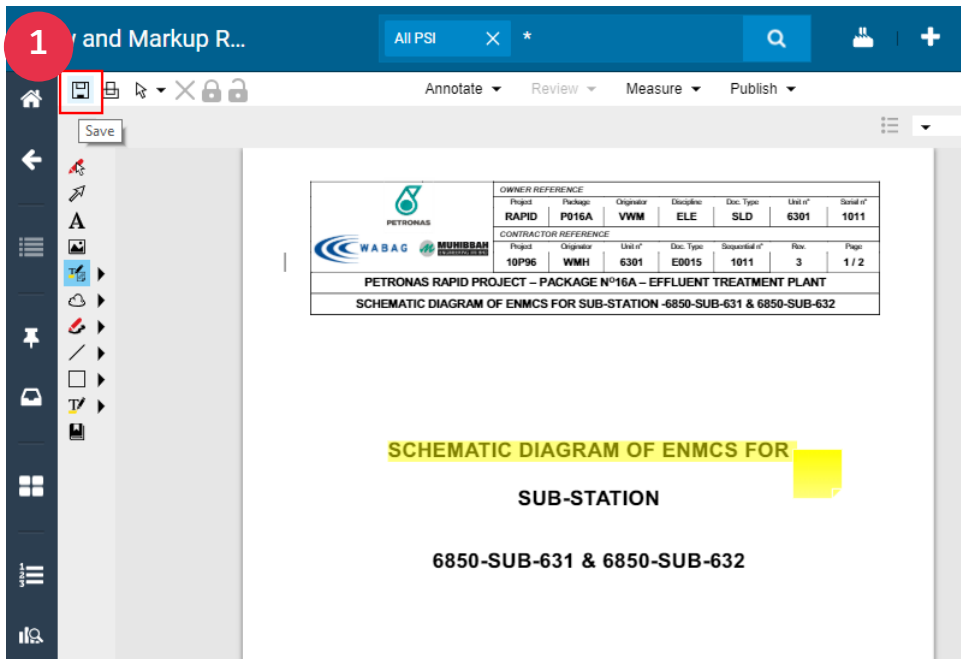
4

Dashboard Overview

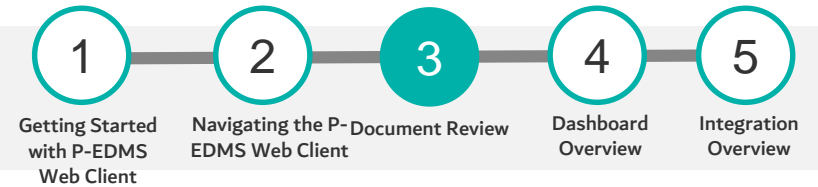
STEPS

To save a markup file

1. Once you have created a markup layer, use the  **Save** button to summon the **Save as** dialog. You can also summon a markup **Save** dialog by choosing **Annotate** and selecting **Save** or **Save as**.
2. Type **Description**, select **Item owning group** and select **Type of markup** in the text box
3. Select **FINISH**.



COMPLETING THE DOCUMENT REVIEW



STEPS

Completing the document review

Complete the review step of the workflow by:-

1. Click **Actions** menu icon of To Do List item in the To Do List window.
2. Expand **TDL Action** and select **Completed**.
3. In the Completed window, enter **Comments** and **Message to the next step** and click **OK**.

Name	Workflow Item	Workflow Item Description	Targeted Date	Duration
(3/7) - TO CONSOLIDATE COMMENT	RAPID-P016A-VWM-CON-MST-0043	METHOD STATEMENT FOR CABL...	26/11/2018	2
(3/7) - TO CONSOLIDATE COMMENT	RAPID-P016B-LLWT-MEC-TDS-4850-0010	EARTHING AND LIGHTNING LAYO...	25/10/2018	2
(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P0025-GTS-ARC-AWR-0001-0001	CREATE TAG-DOC RELATIONSHIP	26/11/2018	2
(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P0014-GTS-MEM-0001	mom for coc meeting	26/11/2018	2
(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P0014-GTS-CMM-AWR-0001-00...	test test	26/11/2018	2
(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P012A-GTS-INC-DWG-1211-0001	TESTING days 2	26/11/2018	2
(7/7) - PREPARE OUTGOING TRANSMITT...	RAPID-P016A-VWM-IPMT-LTR-0351	Submission of Tax Invoice for P10...	31/10/2018	1
(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P016B-LLWT-ICT-PSD-9810-0001	TESTING DOC FOR SR	15/11/2018	2
(3/7) - TO CONSOLIDATE COMMENT	RAPID-P016A-IPMT-ENG-GEN-0001	RAPID-SP3D-PATCH-0011	26/11/2018	2
(2/7) - TO REVIEW	PRPCUF-CTMS-ACE-APC-ALT-4300-0002	TEST DOCUMENT	30/11/2018	5

Completed

Comments:

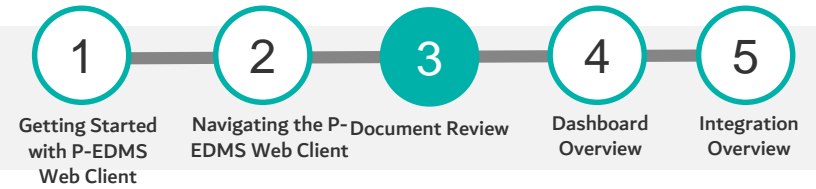
Review Process Complete

Message to next step:

Please consolidate markups for approval step

CANCEL OK

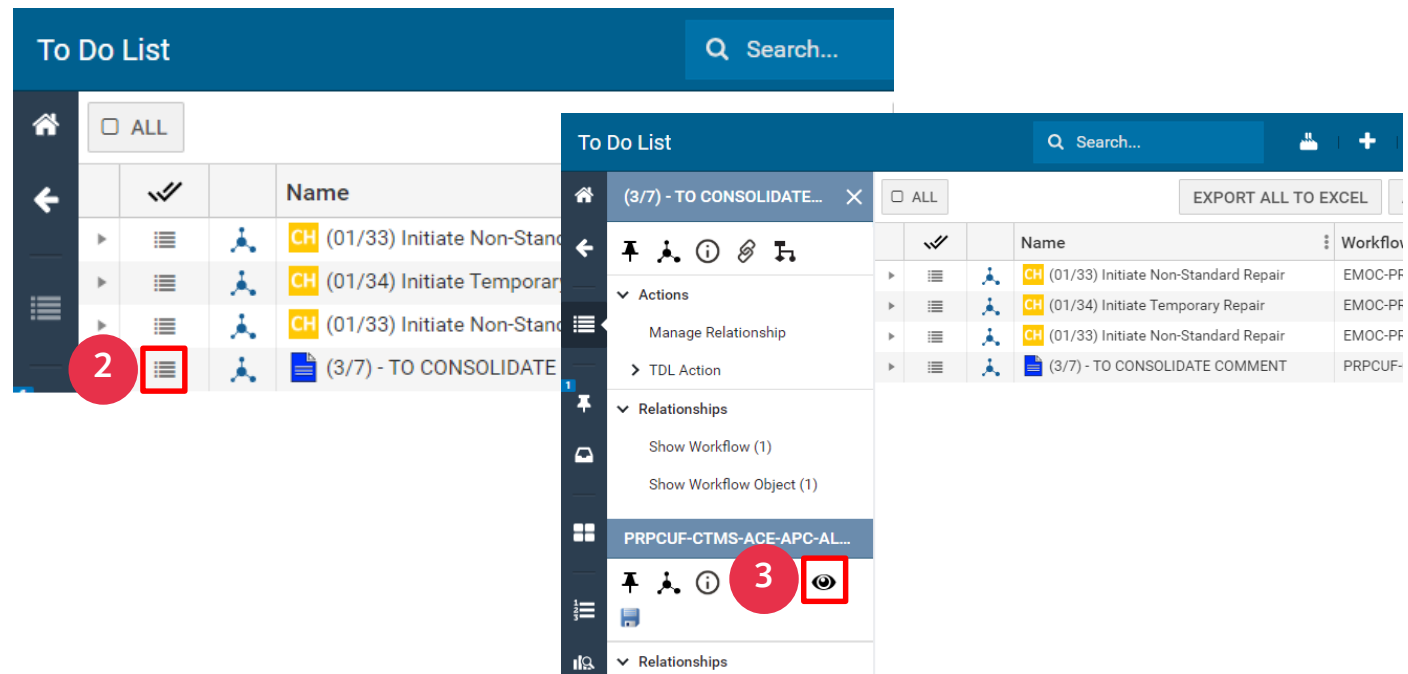
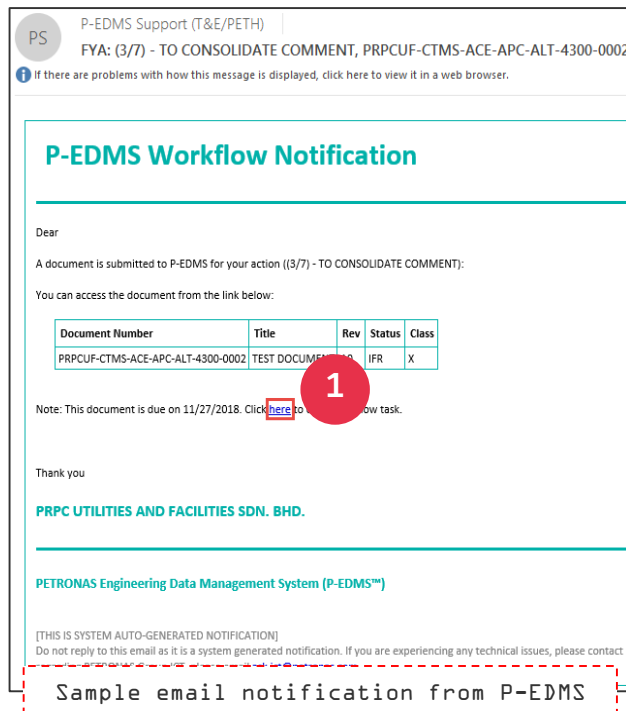
CONSOLIDATE DOCUMENT MARKUP



STEPS

Consolidate the document markup (To Consolidate Comment)

1. Engineers will receive email notification from P-EDMS if there is document for review. Click hyperlink in the email notification to navigate automatically to To-Do-List window.
2. In the To Do List window, select Action menu icon
3. Click **View and Markup** icon to view the document.



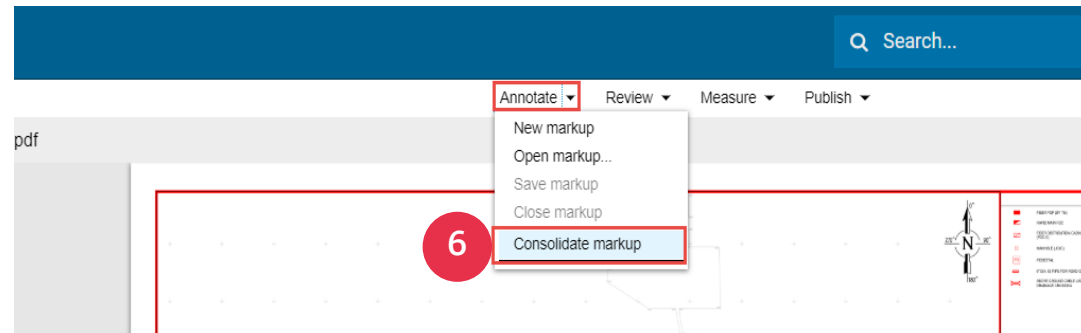
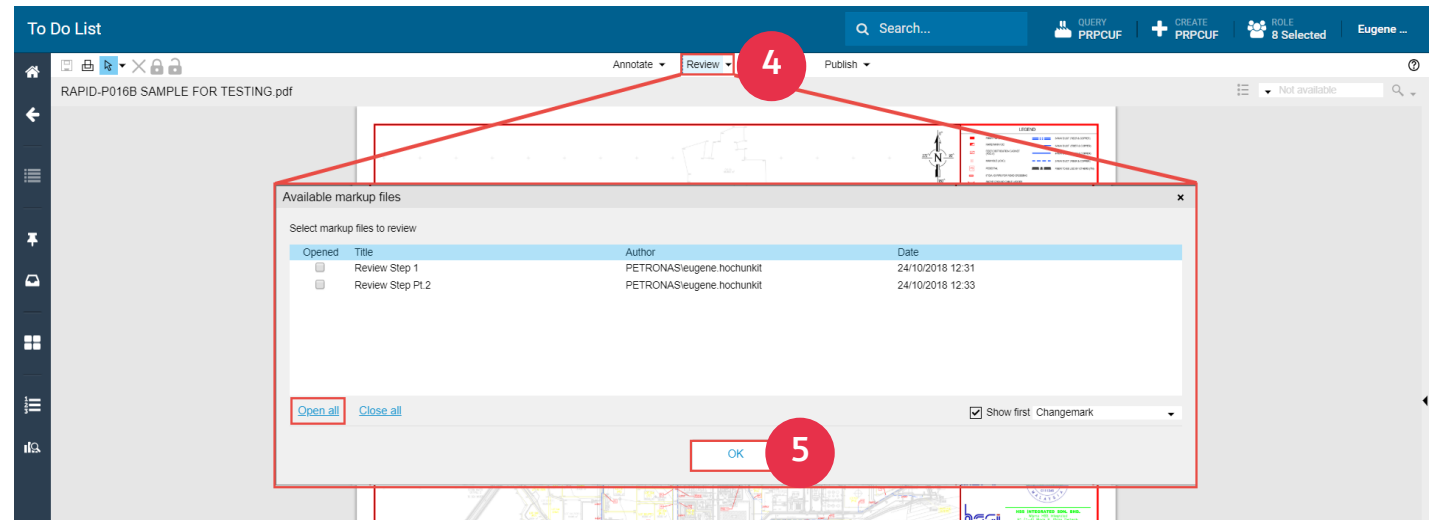
CONSOLIDATE DOCUMENT MARKUP

- 1 Getting Started with P-EDMS Web Client
- 2 Navigating the P-Document Review EDMS Web Client
- 3 **4** Dashboard Overview
- 4 Dashboard Overview
- 5 Integration Overview

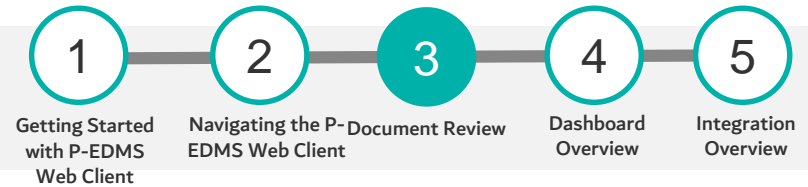
STEPS

4. click on **Review** menu
5. click on **Open all** and click **OK**.
6. Click on **Annotate** and then select **Consolidate markup**.

Note: Required to make any minor change on any of the markup items to enable Consolidate markup option.



CONSOLIDATE DOCUMENT MARKUP



STEPS

7. In Create Markup File window, enter the description and select **INTERNAL_USE** for Item owning group and select **Consolidated** for Type of markup.
8. Then click **Finish** button.
- Note: Required to make any minor change on any of the markup items to enable Saved option.
9. Return to To Do List window and click **Action** menu icon of this To Do List item
10. Click **Update CRS Response Status** icon to update Response Status.
11. Select Response Status for CRS and click **OK**.

Create Markup File

▼ Main details
Name: * TBA: To be allocated using ENS
Description:

▼ Ownership Details
Item owning group: INTERNAL_USE

▼ Markup File Details
Type of markup: * Consolidated (7)

FINISH (8)

To Do List

Name	Workflow Item	Workflow Item Description
(2/7) - TO REVIEW	RAPID-P016A-IPMT-ENG-GEN-0001	RAPID-SP3D-PATCH-0011
(3/7) - TO CONSOLIDATE COMMENT	RAPID-P016B-LLWT-MEC-TDS-4850-0010	EARTHING AND LIGHTNING LAYO...
(3/7) - TO CONSOLIDATE COMMENT	RAPID-P016B-ACE-VEN-AWR-9810-0001	Test Doc for WC WF

Update RAPID-P016B-ACE-VEN-AW...

CRS Response Status

Response Status: * Please select... (11)

- Please select...
- Accepted With Minor Comment (Minor Content, Cosmetic Error i.e. Typo, etc), Accepted With Minor Comment (Minor Content, Cosmetic Error i.e. Typo, etc)
- Accepted Without Comments, Accepted Without Comments
- Rejected (Major Errors etc), Rejected (Major Errors etc)
- Returned With Comments (Technical Comments), Returned With Comments (Technical Comments)

COMPLETING THE CONSOLIDATE DOCUMENT

1
Getting Started
with P-EDMS
Web Client

2
Navigating the P-Document Review
EDMS Web Client

3
Dashboard
Overview

4
Dashboard
Overview

5
Integration
Overview

STEPS

Completing the consolidated document

Complete the consolidate step of the workflow by:-

1. Click **Actions** menu icon of To Do List item in the To Do List window.
2. Expand **TDL Action** and select **Completed**.
3. In the Completed window, enter **Comments** and **Message to the next step** and click **OK**.

	✓	Name	Workf
▶	☰	(3/7) - TO CONSOLIDATE COMMENT	RAPID
▶	☰	(3/7) - TO CONSOLIDATE COMMENT	RAPID
▶	☰	(3/7) - TO CONSOLIDATE COMMENT	PRPCL
▶	☰	(3/7) - TO CONSOLIDATE COMMENT	PRPCL
▶	☰	(3/7) - TO CONSOLIDATE COMMENT	PRPCL
▶	☰	(3/7) - TO CONSOLIDATE COMMENT	PRPCL
▶	☰	(7/7) - PREPARE OUTGOING TRANSMITT...	RAPID
▶	☰	(3/7) - TO CONSOLIDATE COMMENT	PRPCL
▶	☰	(3/7) - TO CONSOLIDATE COMMENT	RAPID
▶	☰	(3/7) - TO CONSOLIDATE COMMENT	PRPCL

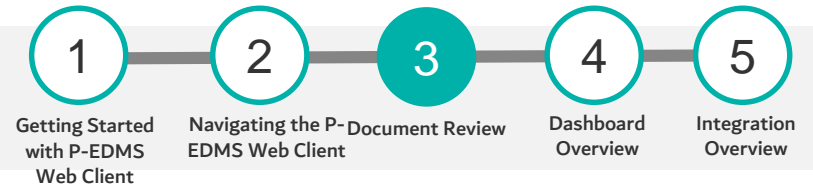
Completed

Comments:
Review Process Complete

Message to next step:
Please consolidate markups for approval step

CANCEL OK

APPROVE THE MARKUP DOCUMENT



STEPS

Approve the document (To Approve)

1. Project Manager will receive email notification from P-EDMS if there is document for review. Click hyperlink in the email notification to navigate automatically to To-Do-List window.
2. In the To Do List window, select **Action** menu icon
3. Click **View and Markup** icon to view the document.

PS P-EDMS Support (T&E/PETH)
FYA: (4/7) - TO APPROVE, PRPCUF-CTMS-ACE-APC-ALT-4300-0002

P-EDMS Workflow Notification

Dear

A document is submitted to P-EDMS for your action ((4/7) - TO APPROVE):

You can access the document from the link below:

Document Number	Title	Rev	Status	Class
PRPCUF-CTMS-ACE-APC-ALT-4300-0002	TEST DOCUMENT	A0	IFR	X

Note: This document is due on 11/27/2018. Click [here](#) to **1** workflow task.

Thank you

PRPC UTILITIES AND FACILITIES SDN. BHD.

PETRONAS Engineering Data Management System (P-EDMS™)

[THIS IS SYSTEM GENERATED NOTIFICATION]
Do not
at [ict.se](#)

Sample email notification from
P-EDMS

To Do List Search...

ALL

Name
CH (01/33) Initiate Non-
CH (01/34) Initiate Tem
CH (01/33) Initiate Non-
(4/7) - TO APPROVE

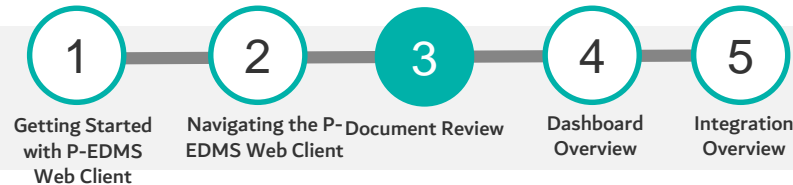
To Do List Search... EXPORT ALL TO EXCEL

(4/7) - TO APPROVE

ALL

Name	Workflow
CH (01/33) Initiate Non-Standard Repair	EMOC-PR
CH (01/34) Initiate Temporary Repair	EMOC-PR
CH (01/33) Initiate Non-Standard Repair	EMOC-PR
(4/7) - TO APPROVE	PRPCUF-C

APPROVE MARKUP DOCUMENT



STEPS

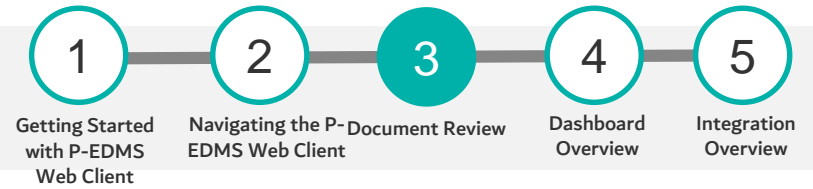
3. To view consolidated comments, click on **Review** menu
4. Select the **Consolidated** layer by tick it
5. Click **OK**.
6. To close consolidate comments, you can select **Review** menu and click on **Close Review**.



The screenshot shows the P-Document Review interface. The 'Review' menu is highlighted with a red box and a red circle with the number 3. The 'Available markup files' dialog is open, showing a table of files. The 'Consolidated' row is highlighted in yellow and has a red circle with the number 4. The 'OK' button is highlighted with a red circle with the number 5. The 'Review' menu is open, showing options like 'Close review', 'Review Changemark notes', 'Next Changemark note', and 'Previous Changemark note'. The 'Close review' option is highlighted with a red circle with the number 6.

Opened	Title	Author	Date
<input type="checkbox"/>	Commented	izzat.saidi	3/5/19, 2:55 AM
<input type="checkbox"/>	SPFWebClientUsersGui-izzat	izzat.saidi	3/5/19, 3:39 AM
<input checked="" type="checkbox"/>	Consolidated	izzat.saidi	3/5/19, 3:41 AM
<input type="checkbox"/>	Comment	izzat.saidi	3/5/19, 3:06 AM

COMPLETING THE CONSOLIDATE DOCUMENT



STEPS

Approving the consolidated document

Complete the approve step of the workflow by:-

1. Click **Actions** menu icon of To Do List item in the To Do List window.
2. Expand **TDL Action** and select **Approve** or **Reject**.
3. In the Completed window, enter **Comments** and **Message to the next step** and click **OK**.

To Do List

All Document x PRPCUF-P0025-GTS-ARC-AWR-0001-0001

(4/7) - TO APPROVE

	✓	Name	Workflow Item	Workflow Item Description	Targeted Date	Du
		(3/7) - TO CONSOLIDATE COMMENT	RAPID-P016A-VWM-CON-MST-0043	METHOD STATEMENT FOR CABL...	26/11/2018	2
		(3/7) - TO CONSOLIDATE COMMENT	RAPID-P016B-LLWT-MEC-TDS-4850-0010	EARTHING AND LIGHTNING LAYO...	25/10/2018	2
		(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P0025-GTS-ARC-AWR-0001-0001	CREATE TAG-DOC RELATIONSHIP	26/11/2018	2
		(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P0014-GTS-MEM-0001	mom for coc meeting	26/11/2018	2
		(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P0014-GTS-CMM-AWR-0001-00...	test test	26/11/2018	2
		(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P012A-GTS-INC-DWG-1211-0001	TESTING days 2	26/11/2018	2
		(7/7) - PREPARE OUTGOING TRANSMITT...	RAPID-P016A-VWM-IPMT-LTR-0351	Submission of Tax Invoice for P10...	31/10/2018	1
		(3/7) - TO CONSOLIDATE COMMENT	PRPCUF-P016B-LLWT-ICT-PSD-9810-0001	TESTING DOC FOR SR	15/11/2018	2
		(3/7) - TO CONSOLIDATE COMMENT	RAPID-P016A-IPMT-ENG-GEN-0001	RAPID-SP3D-PATCH-0011	26/11/2018	2
		(4/7) - TO APPROVE	PRPCUF-CTMS-ACE-APC-ALT-4300-0002	TEST DOCUMENT	27/11/2018	2

Completed

Comments:

Approved.

Message to next step:

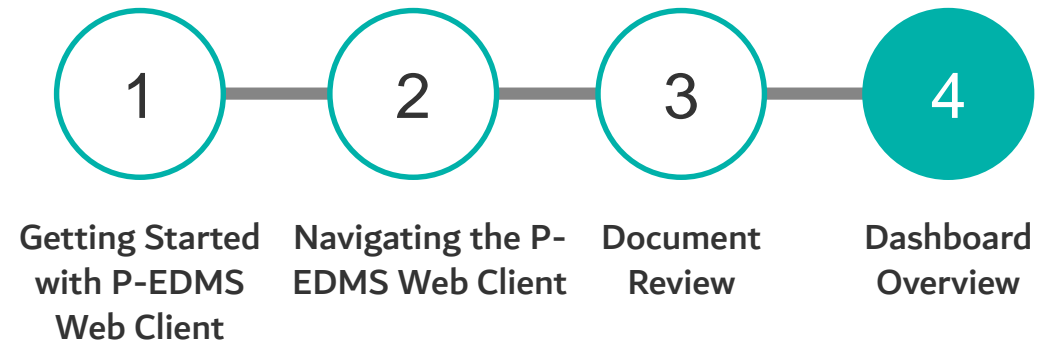
Prepare CRS and transmittal

CANCEL OK

PIC P-EDMS DASHBOARD

LEARNING OBJECTIVE

Participants (all access roles) will gain a basic understanding on PIC P-EDMS Dashboard



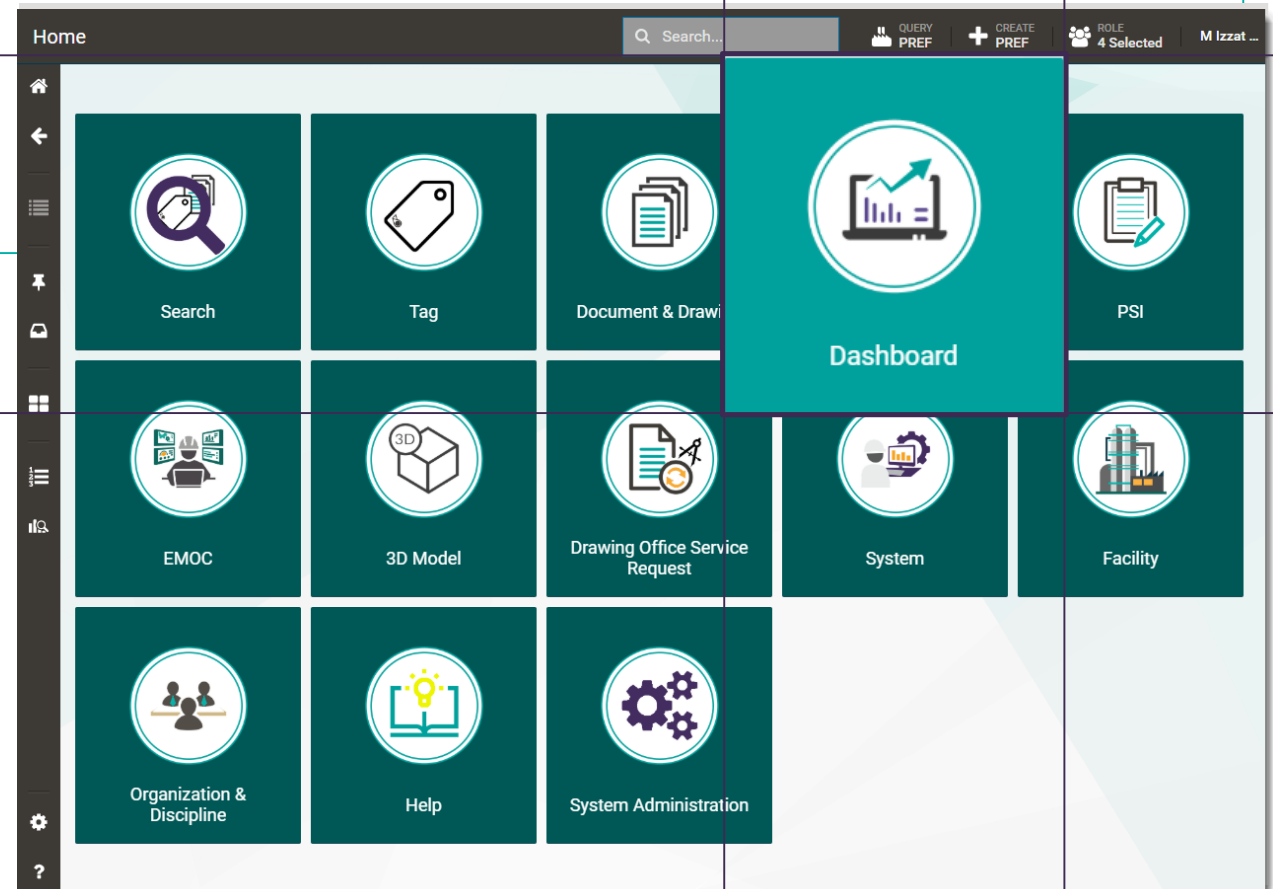
OVERVIEW OF PIC P-EDMS DASHBOARD

- 1 Getting Started with P-EDMS Web Client
- 2 Navigating the P- Document Review EDMS Web Client
- 3 Dashboard Overview
- 4 Dashboard Overview
- 5 Integration Overview

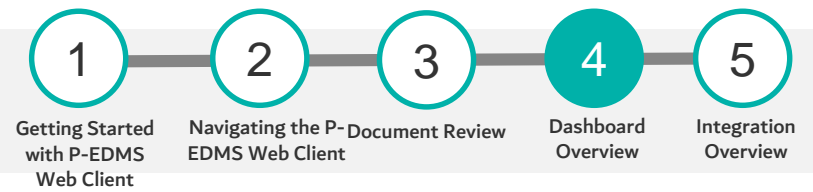
OVERVIEW

The main objective of PIC P-EDMS Dashboard is to let users visualize the Key Performance Indicators and other strategic data of PIC organization at a glance. Below are main features and benefits of a PIC P-EDMS Dashboard:

1. Data Transparency
2. Access to data
3. Better decision making
4. Accountability
5. Interactivity



OVERVIEW OF PIC P-EDMS DASHBOARD



Dashboard Modules

Dashboard modules available in PIC P-EDMS are:-

- Dashboard by Master Tag Register (MTR)
- Dashboard by Master Document Register (MDR)
- Dashboard by Process Safety Information (PSI)
- Dashboard by Workflow Status (Document)
- Dashboard by EMOC Register
- Dashboard by Workflow Status (EMOC)

Home

Search...

QUERY PRPCUF

CREATE PRPCUF

ROLE 8 Selected

Dashboard

Dashboard by Master Tag Register (MTR)

Dashboard by Master Document Register (MDR)

Dashboard by EMOC Register

Dashboard by Process Safety Information (PSI)

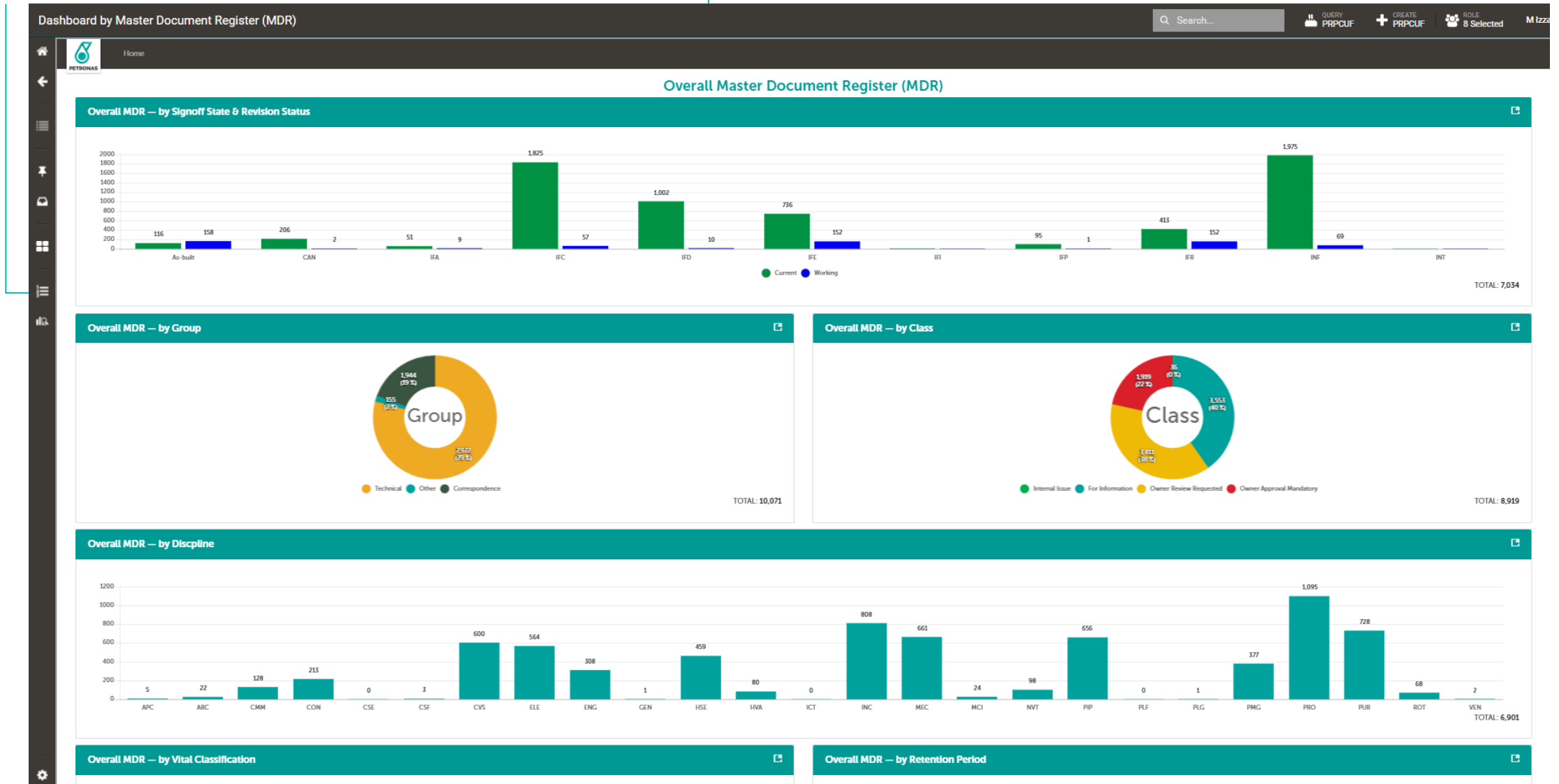
Dashboard by Workflow Status (Document)

Dashboard by Workflow Status (EMOC)

OVERVIEW OF PIC P-EDMS DASHBOARD

- 1 Getting Started with P-EDMS Web Client
- 2 Navigating the P-Document Review EDMS Web Client
- 3 Dashboard Overview
- 4 Dashboard Overview
- 5 Integration Overview

Overall Master Document Register (MDR)



WHAT IS ENGINEERING MANAGEMENT OF CHANGE (EMOC)?

What is Engineering Management of Change (EMOC)?

Why we required EMOC?



TYPES OF EMOC

The 8 types of EMOCs are as follows:

Major Plant Change: This process is initiated when the budget involved is more than 50M MYR e.g. when there is a need for new Greenfield projects and major Brownfield projects which requires a major change or maybe a construction of new refinery plant or major extension of new plant.

Operation & Maintenance (O&M) Minor Change: This process is initiated when the budget involved is less than 50M MYR. This EMOC is for O&M change requirements and the design and execution is carried out within in house.

Transmitter Re-Range: This process is initiated when there is a need for the values of a transmitter to be changed within the safe operating limits.

Distributed Control System (DCS) Minor Change: This process is initiated when there are minor changes to be carried out on the DCS systems, all the changes are done in house and monitored by Process Safety Management (PSM).

Non Critical Alarm Set Point Change: This process is initiated when the alarm points are to be modified to safer operating limits e.g. changes of alarm points on pressure control, flow control, or temperature control.

Non-Standard Repair: This process is carried out when there is need for a repair which are not a part of standard procedures e.g. operational and non standard issues.

Experimental Plant Trial (EPT): This process is initiated when they have a new process to be carried out based on the business requirements. This EPT procedure is related to all changes e.g. from chemicals and specifications which could lead to changes in the quality of any final products.

Temporary Repair: The process is used to monitor the temporary changes and modify it to permanent based on the approvals and requirement e.g. short-term repair less than 6 months.

EMOC NATURE OF CHANGE

The 8 types of EMOCs can have the below nature:

Permanent EMOC

Changes are permanent in nature.

Covers all aspect of change from facility improvement, HSE improvement, Regulations Compliance, and System Upgrading.

- Modification on Safety Critical Equipment
- Modification on Piping and Equipment
- Modification on Instrumentation and Logic

Emergency EMOC

Emergency Change is defined as a change that urgently need to be implemented within 24 hours in order to avoid:

- Personnel Injury / Fatality
- Property Damage
- Environmental Loss
- Economic Loss
- Loss to Company Reputation

Temporary EMOC

Temporary Change is defined as a change which is applied on the existing facility or process for a defined, specified, and/or limited time period. A Temporary Change shall be limited to six (6) months from the startup date. However, it can be extended for another 6 months. Further extension after 12 months requires higher authority approval.

MANAGEMENT OF CHANGE FOR END USER

The screenshot displays the 'FDW - Home' dashboard. At the top left, the text 'FDW - Home' is followed by a red circle containing the number '1'. To the right is a search bar with the placeholder text 'Search...'. Further right are buttons for 'QUERY PREF', 'CREATE PREF', and 'ROLE 4 Selected', along with the user name 'Maziyat...'. A vertical sidebar on the left contains navigation icons. The main area features a grid of ten teal-colored tiles, each with a circular icon and a label. A red circle with the number '2' is positioned to the left of the 'EMOC' tile, which is also outlined with a red border. The tiles are arranged as follows:

Search	Tag	Document & Drawing	Dashboard	PSI
EMOC	3D Model	Drawing Office Service Request	System	Facility
Organization & Discipline	Help			

MANAGEMENT OF CHANGE FOR END USER

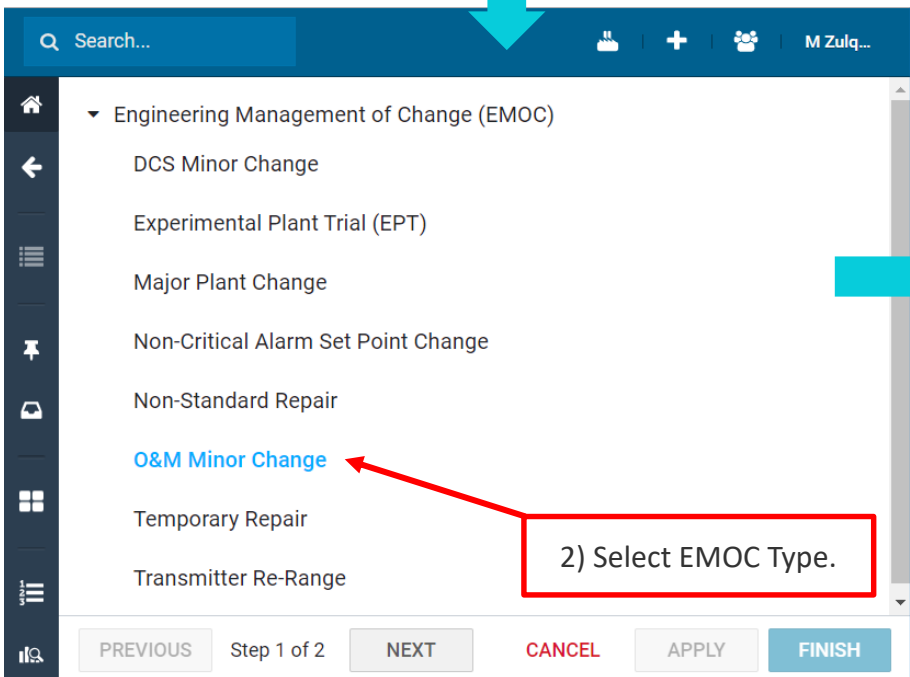
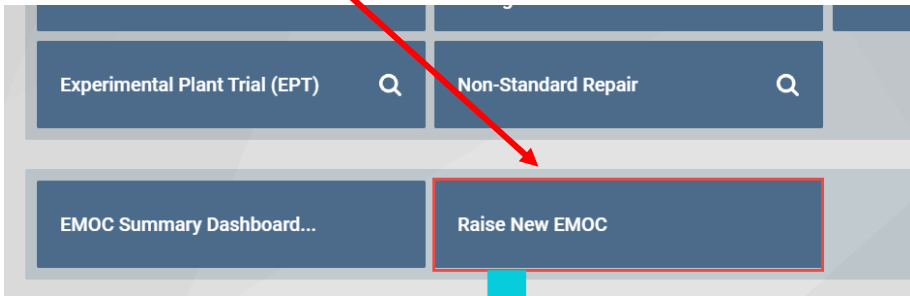
FDW - Home Q Search... QUERY PREF + CREATE PREF ROLE 4 Selected Maziyat...

EMOC

All EMOC	Open/Overdue EMOC	Very High Risk EMOC	
All Action Item	PSM Guide	EMOC search by status	
All Permanent EMOC	All Temporary EMOC		
Major Plant Change	O&M Minor Change	Transmitter Re-Range	
DCS Minor Change	Non-Critical Alarm Setpoint Change	Temporary Repair	
Experimental Plant Trial (EPT)	Non-Standard Repair	EMOC search by type	
Dashboard & New EMOC	Raise New EMOC	Dashboard by EMOC Register	Dashboard by Workflow Status (EMOC)

MANAGEMENT OF CHANGE FOR END USER

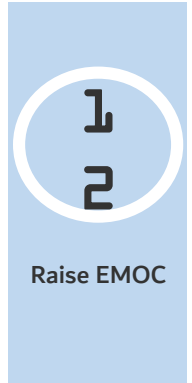
1) To raise new MOC, Click here.



2) Select EMOC Type.

3) Click NEXT

4) Fill up required information



MANAGEMENT OF CHANGE FOR END USER

Raise New EMOC

QUERY PRPCUF | CREATE PRPCUF | ROLE 7 Selected | Eugene ...

INITIATION | DESIGN REVIEW & RISK ASSESSMENT | EXECUTION | CLOSE OUT

CHANGE DETAILS

RISK ANALYSIS

CHANGE STATUS

Initiator's Superior: *	*	Q
EMOC Initiator's Superior Acceptance Date:		
EMOC Committee Endorsement Date:		
Change Owner:	*	Q
Change Owner's Department:	*	Q
Change Owner's Superior:	*	Q
EMOC Coordinator:	*	Q
EMOC Committee:	*	Q
Group Technical Authority:	*	Q
Change Implementer:	*	Q
Design Reviewer/ Technical Authority:	*	Q
Head of Technical Services Department:	*	Q
Document Controller:	*	Q

PR CANCEL APPLY FINISH

5) Ensure to select Superior

Raise New EMOC

Object successfully created

6) Click FINISH

1
3

Raise EMOC



PRPC Digital

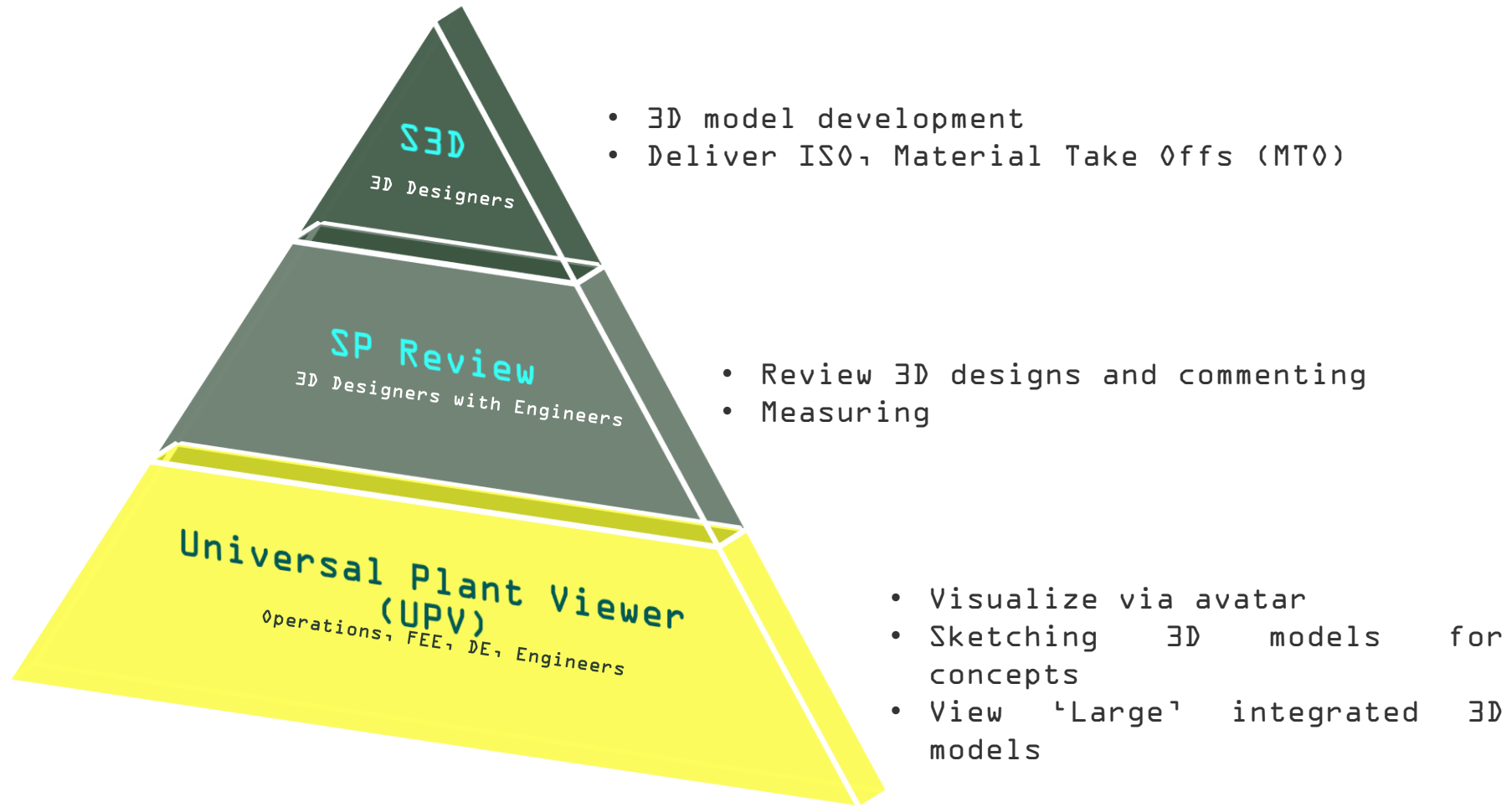
3D VISUALIZATION

Universal Plant Viewer (UPV)

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Target Audiences & Usage



LEARNING OBJECTIVES

Upon completion of this course, you will be able to:

1

Access the UPV model

2

Navigate the UPV

3

Perform UPV's functionalities such as search tag & measuring

UPV Model Availability

URL : <https://pedms.fdw.petronas.com/pic-upv/>

The screenshot displays the UniversalPlantViewer Browser interface. On the left, there is a sidebar with the Petronas logo and the text 'UniversalPlantViewer Browser'. Below this, there are three buttons for installation instructions: 'Installation Instructions for PC', 'Installation Instructions for Android', and 'Installation Instructions for iOS'. A red bracket highlights these buttons, with a callout box stating 'Click here to download UPV launcher'. Below these buttons is a 'Download Documentation' button. The main content area is titled 'Available UniversalPlantViewer Models' and contains a table with the following columns: Name, Image, Size, and Last Modified. The table lists several model categories and their respective models, with some categories highlighted by red boxes: '1.0-OPERATION' (containing 'PRPCUF' and 'PRPCUF-4850'), '2.0-PROJECT' (containing '2.1-PREF' and various 'P1-UPV' through 'P5-UPV' models), and '2.2-PCHEM' (containing 'P11-UPV' through 'P7-UPV' models). A callout box on the left states 'Available in Project and Operation mode. Soon after COD, we would have all models in Operation mode.' with an arrow pointing to the '2.0-PROJECT' category.

Name	Image	Size	Last Modified
> 1.0-OPERATION			
> PRPCUF			
PRPCUF-4850		203.21 MB	8/13/2019
> 2.0-PROJECT			
> 2.1-PREF			
P1-UPV		11096.68 MB	6/11/2019
P22-UPV		1420.86 MB	6/18/2019
P28B-UPV		230.4 MB	6/24/2019
P2-UPV		3883.34 MB	6/11/2019
P30-UPV		409.36 MB	6/24/2019
P32-UPV		3.46 MB	6/24/2019
P3-UPV		11882.33 MB	6/12/2019
P4-UPV		1816.43 MB	6/12/2019
P5-UPV		9197.75 MB	6/13/2019
> 2.2-PCHEM			
P11-UPV		1379.48 MB	6/18/2019
P12A-UPV		857.85 MB	6/18/2019
P27-UPV		496.49 MB	6/24/2019
P6A-UPV		806.35 MB	6/17/2019
P7-UPV		974.5 MB	6/17/2019

Click here to download UPV launcher

Available in Project and Operation mode. Soon after COD, we would have all models in Operation mode.

Graphical Interface

3D DemoPlant Plant A Sulphur Recc... Recovery Sta... U02A-Ec

Navigation bar

Camera modes

Select and fit

Clipping modes

Clipping options

Colour

Highlight

Measure

Packages

Views

Additional objects

Comments

Sketch mode

Commenting system

Tools

Settings

File management

Model

Common views cube

Menu

Mini map

Search

ATTRIBUTES

1 object selected

3 links found

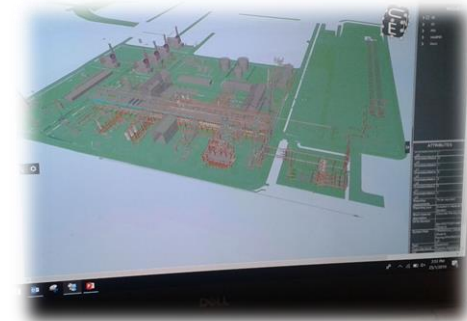
Equipment List

Equipment Documentation

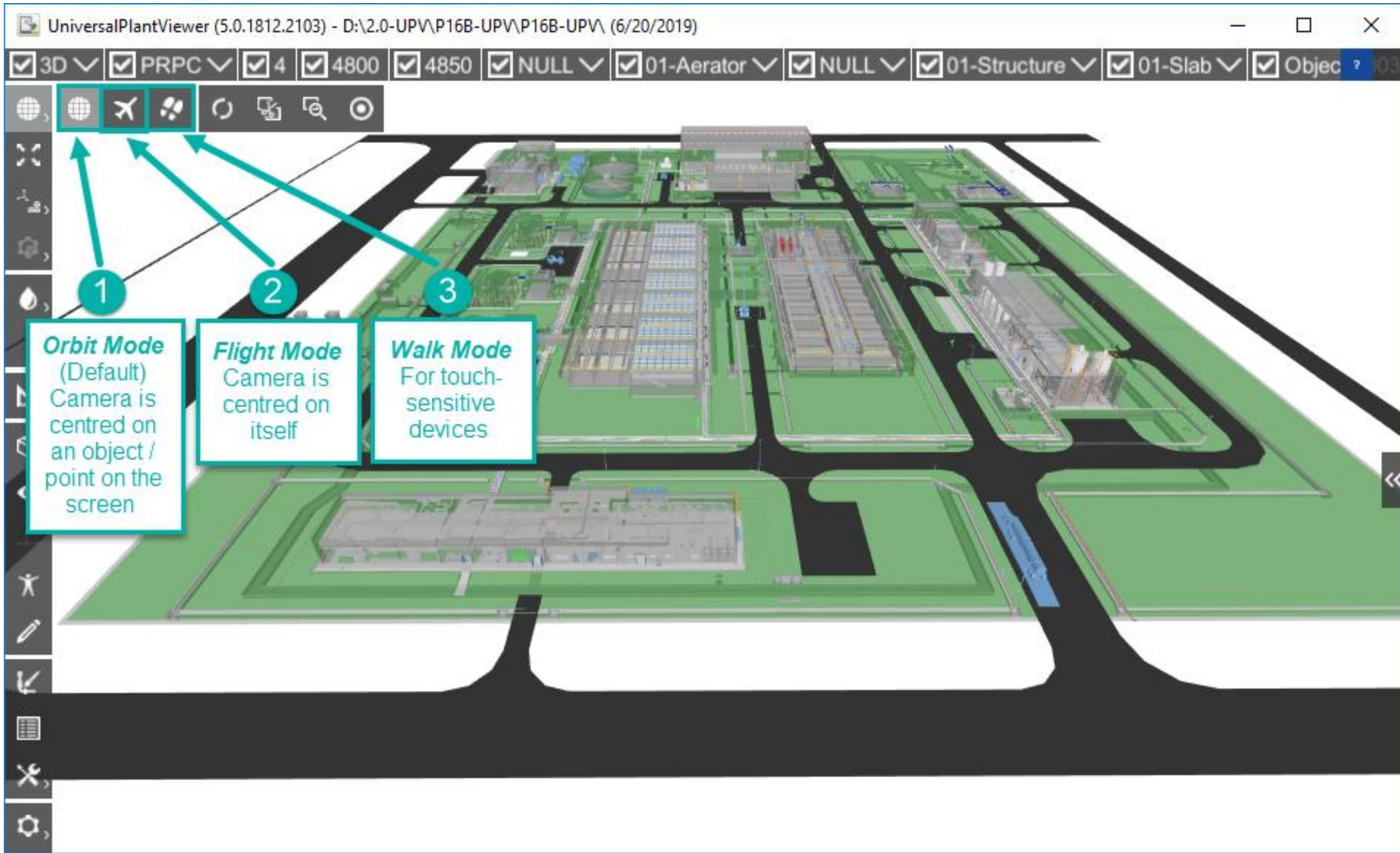
Maintenance Instruction

Area System	Sulphur Recovery Area-A
Assembly Path	T-240
Construction Type	New
Date created	6/24/2005 9:39:07 PM
Date last modified	4/19/2015 10:42:28 AM
Eqp Type 0	Process Equipment
Eqp Type 1	Process Vessel
Eqp Type 2	Pressure Vessel
Eqp Type 3	Column
FileName	Equipment
Linkage	15860 14153 17084 1059
Location	E 9878 ft 9 in N 7786 ft 1 in EL+ 220 ft 6 in
Name	T-240
OID	(00004E2E-0000-0000-F43D-4937BC422304)
Permission Group ID	4
Reporting type	Included in Material Control System
SP3d Moniker	@a=00271120014##298155376485416436
SprFileName	DemoPlant.vue
Status	Approved
system path	DemoPlant\Plant

3D Sketch (1) Comments Overview T-240.pdf Settings



Camera Modes



Search Tag (1/4)

Pump : 4850-P-010B

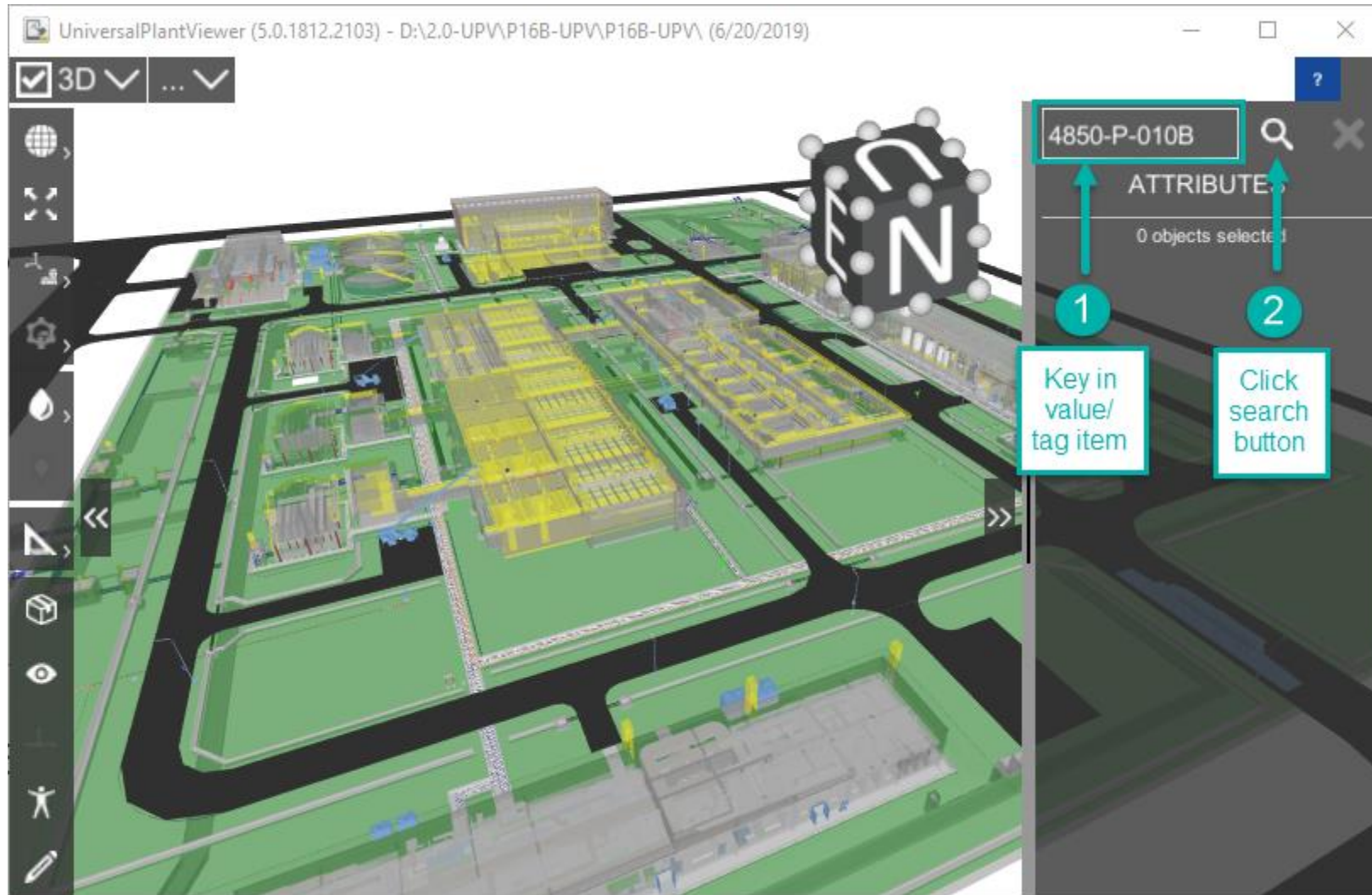
Description : RAW WATER WASH WATER PUMP

Piperun : 15-SW-4850-11520-1N321-N

Piperun : FW-*

Name : Fire Hydrant

Search Tag (2/4)



Search Tag (3/4)

UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\P16B-UPV\P16B-UPV (6/20/2019)

3D PRPC 4 4800 4850 NULL 04-Filter NULL ? Str

4850-P-010B

Unmatched Elements

Equipment Name (1) ▾

Name (1) ▾

4850-P-010B

Name: 4850-P-010B

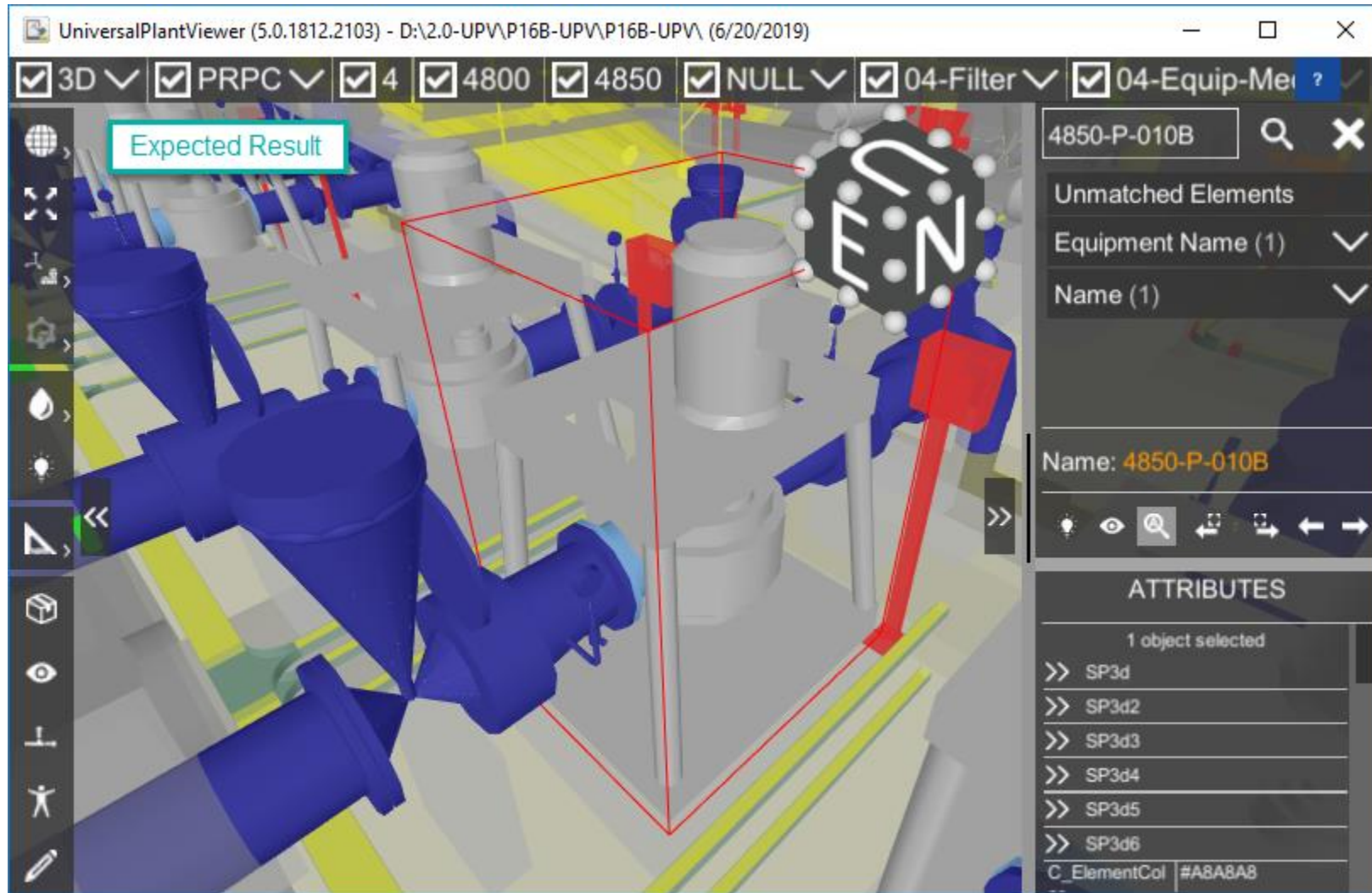
2

1

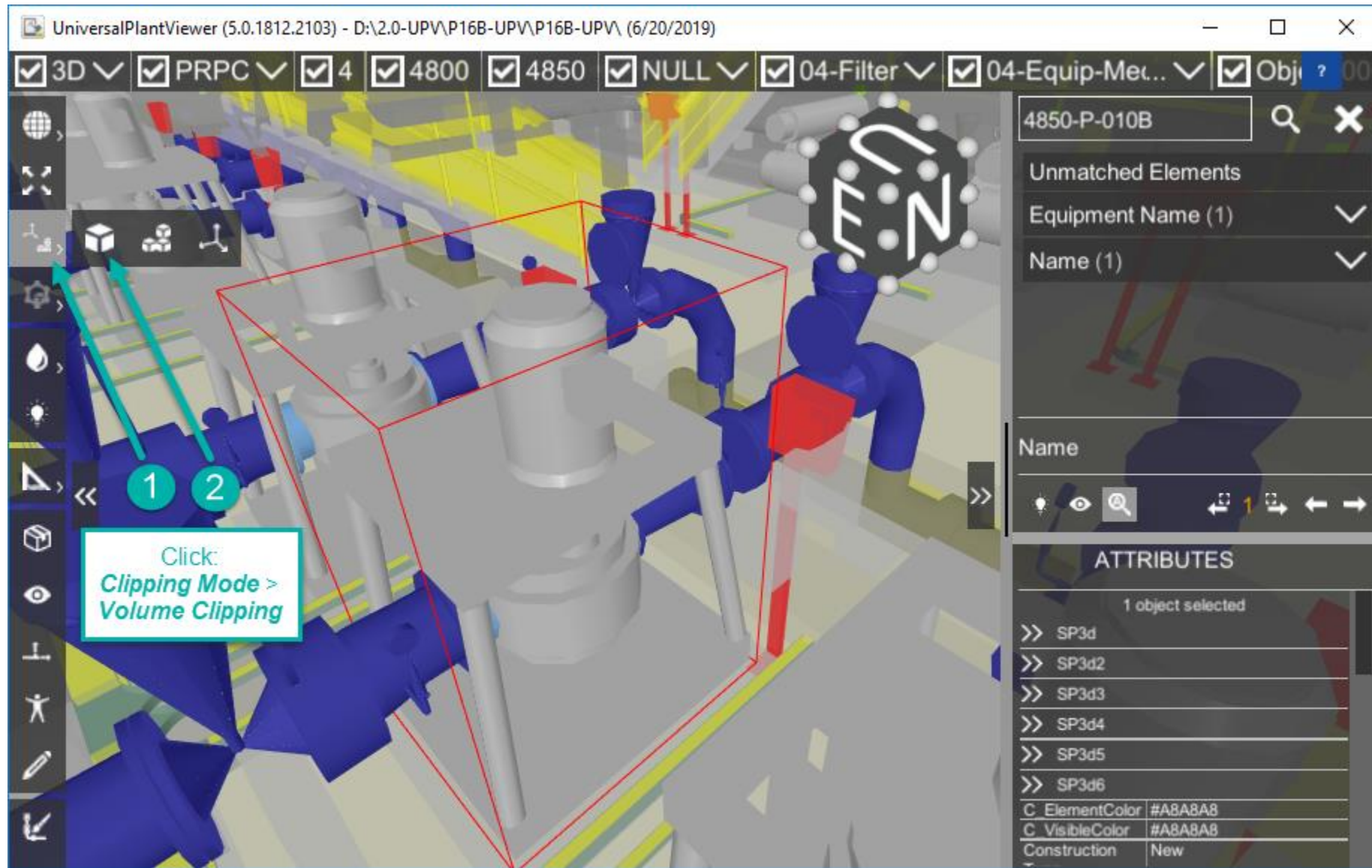
Click tag & it will automatically fitted

Object found & click drop down

Search Tag (4/4)



Clipping Object (1/3)



Clipping Object (2/3)

The screenshot displays the UniversalPlantViewer interface. At the top, the title bar reads "UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\P16B-UPV\P16B-UPV\ (6/20/2019)". Below the title bar is a toolbar with various filters and checkboxes, including "3D", "PRPC", "4", "4800", "4850", "NULL", "04-Filter", "04-Equip-Mec...", and "Obj".

The main 3D view shows a grey process unit with a red wireframe clipping box. Three arrows point to specific features:

- 1**: Points to the "Customise Clipping" icon in the left toolbar. A callout box says: "Select **Customise Clipping** to enable/disable volume size adjuster".
- 2**: Points to a volume size adjuster slider in the top toolbar. A callout box says: "Drag the adjuster to increase/decrease the volume size".
- 3**: Points to a clipping plane on the 3D model. A callout box says: "Press & hold individual surface to adjust the volume sizes".

On the right side, there is a search bar containing "4850-P-010B" and a list of "Unmatched Elements" with columns for "Equipment Name (1)" and "Name (1)". Below this is a detailed view for the selected object, showing "Name: 4850-P-010B" and a list of "ATTRIBUTES" including "SP3d4", "SP3d5", "SP3d6", "ElementColor", "VisibleColor", and "Construction".

Clipping Object (3/3)

The screenshot shows the UniversalPlantViewer interface. The top toolbar contains various filters: 3D, PRPC, 4, 4800, 4850, NULL, 04-Filter, 04-Equip-Mec..., and Obj. A search bar on the right contains the text '4850-P-010B'. The main 3D view shows a complex industrial structure with blue pipes and grey equipment. A green arrow points to a gear icon in the left-hand toolbar, labeled with a '1' in a circle. A text box at the bottom left contains the following text:

Once done with the volume adjustment, click **Customise Clipping** to disable the volume adjuster

The right-hand panel shows a search bar with '4850-P-010B', a search icon, and a close icon. Below the search bar is a list of 'Unmatched Elements' with columns for 'Equipment Name (1)' and 'Name (1)'. The bottom of the right panel shows a 'Name' field, a search icon, and a list of 'ATTRIBUTES' with '0 objects selected'.

Colouring (1/1)

UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\P16B-UPV\P16B-UPV\ (6/20/2019)

3D PRPC 4 4800 4850 NULL 04-Filter 04-Equip-Mec... Obj ? 000

3 Select colour

2 Click **Colourise** to open colour selection window

4 To adjust transparency level

5 To reset colour/style given

1 Click object

4850-P-010B

Unmatched Elements

Equipment Name (1) ▾

Name (1) ▾

Name: 4850-P-010B

ATTRIBUTES

1 object selected

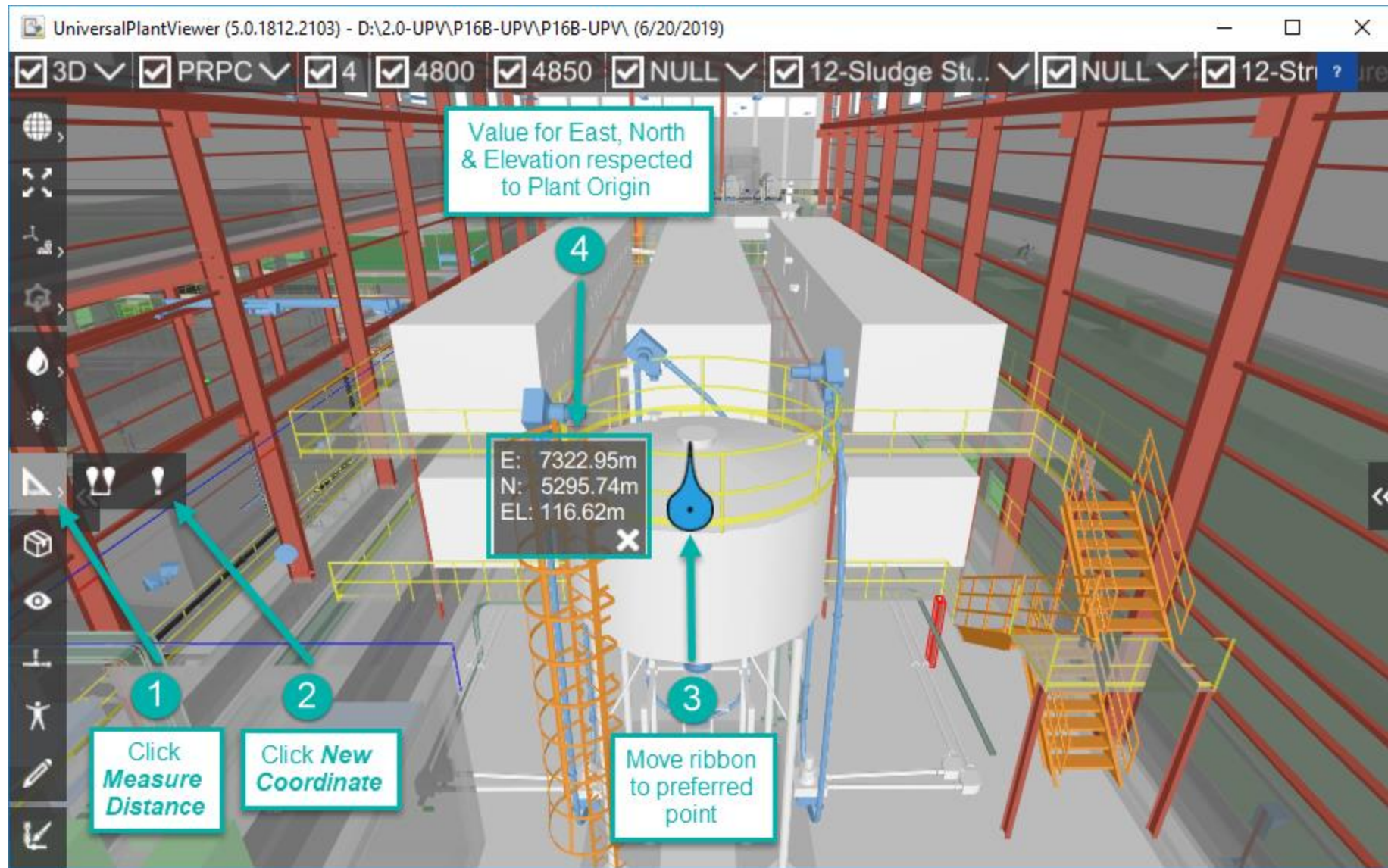
- >> SP3d
- >> SP3d2
- >> SP3d3
- >> SP3d4
- >> SP3d5
- >> SP3d6

C ElementColor	#40637B
C VisibleColor	#40637B
Construction	New

Measurement (1/2)

The screenshot displays the UniversalPlantViewer interface. At the top, the window title is "UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\16B-UPV\16B-UPV\ (6/20/2019)". Below the title bar is a toolbar with various checkboxes: 3D, PRPC, 4, 4800, 4850, NULL, 12-Sludge St..., NULL, and 12-Pip. The main 3D view shows a complex network of pipes in blue and purple. A measurement tool is active, showing a callout box with the following values: 2.12m, 0.43m, 1.18m, and 1.71m. A red line indicates the hypotenuse of a right-angled triangle formed by the measurement lines. Four numbered callouts (1, 2, 3, 4) point to specific UI elements: 1 points to the 'Measure Distance' button, 2 points to the 'New Distance' button, 3 points to a point on the pipe with the instruction "Move ribbon to preferred point", and 4 points to the callout box with the instruction "Value for X, Y, Z & Hypotenuse". The right-hand panel shows a search bar with "WT-4850-00052", a list of "Unmatched Elements" including "Pipeline (1)" and "PipeRun (9)", and an "ATTRIBUTES" section with a list of SP3d objects (SP3d1 to SP3d8).

Measurement (2/2)



Create Package (1/4)

The screenshot shows the UniversalPlantViewer interface with a 3D model of an industrial facility. Three numbered callouts guide the user through the package creation process:

- 1**: Click **Open Packages Panel** (points to the package icon in the left toolbar).
- 2**: Click **Create Package** (points to the package icon in the right-hand PACKAGES panel).
- 3**: Assigned meaningful names (points to the 'FW Service' package in the right-hand panel).

The right-hand panel shows the following structure:

- PACKAGES
 - Unassigned
 - FW Service**
- DEFINITION
 - Icons for visibility and definition settings
- Properties Table

Rusty	unknown
NPD	150mm x 150mm
Permission Group ID	4
Pipeline	FW-4850-11941
ConstructionState	unknown
PipeRun	150-FW-4850-11941-1N322 DQ-N
PMRC	NCTLGRBPEZZ6A
Recognized	Full

Create Package (2/4)

UniversalPlantViewer (5.0.1812.2103) - D:\2.0-...

3D PRPC 4 4800

Key-in data + * as wildcards

Click LIKE (search with wildcards)

Click Condition by Attribute

5

4

1

Attribute condition

Available attributes

Part Number	Pipeline
Percent Fill	=
Permission Group ID	≠
Pipeline	≈
PipeRun	≠
PMRC	FW*
Port No	
Rating	
Recognized	
Reference	
Remark	
Reporting Type	
RunName	
Rusty	
Section Name	

OK Cancel

3

Click Pipeline from selection window

PACKAGES

Unassigned

FW Service

DEFINITION

Uid Equals 00013885-00

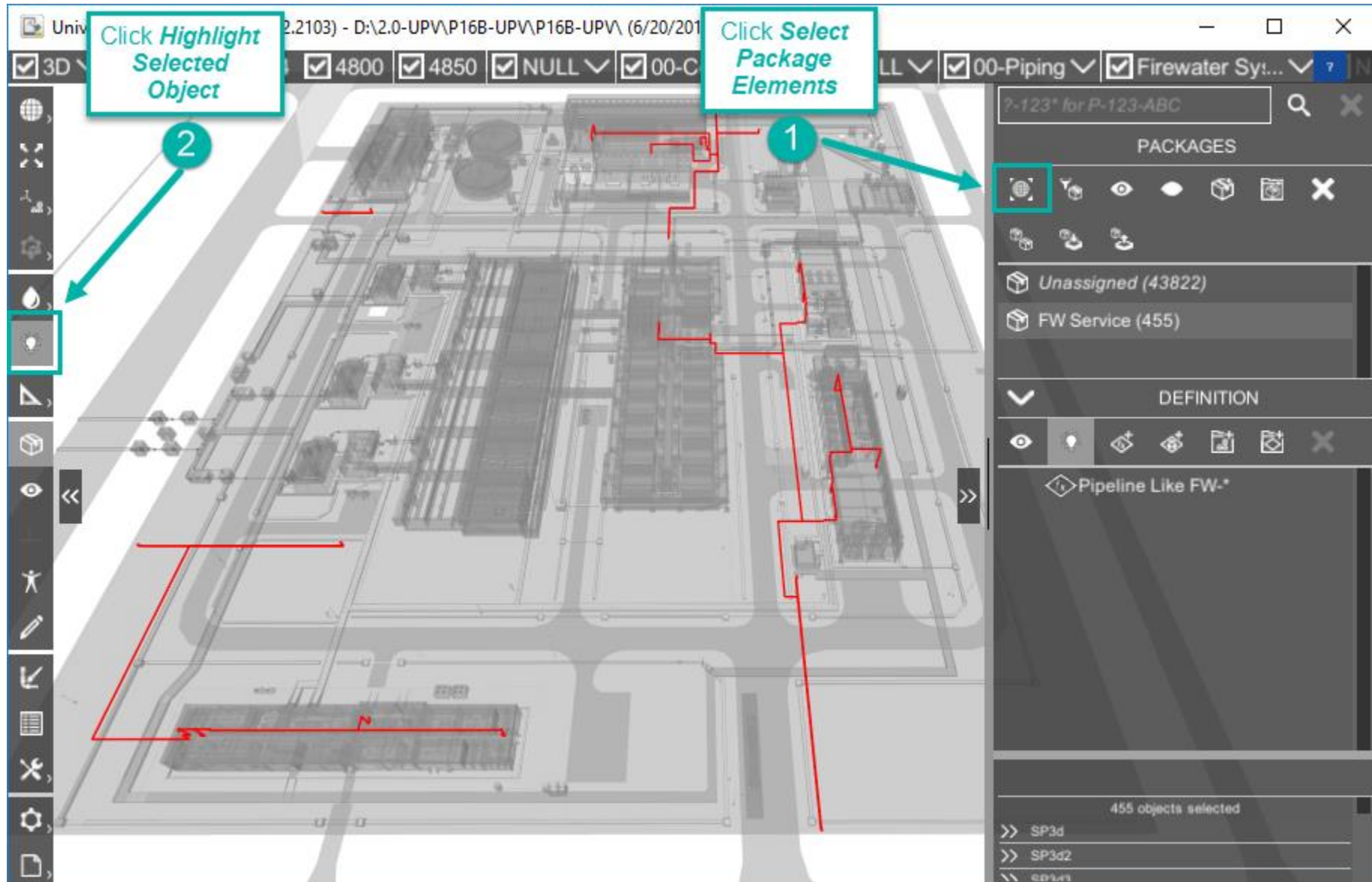
2

Click "Uid" to open Attribute Condition selection window

6

Click OK

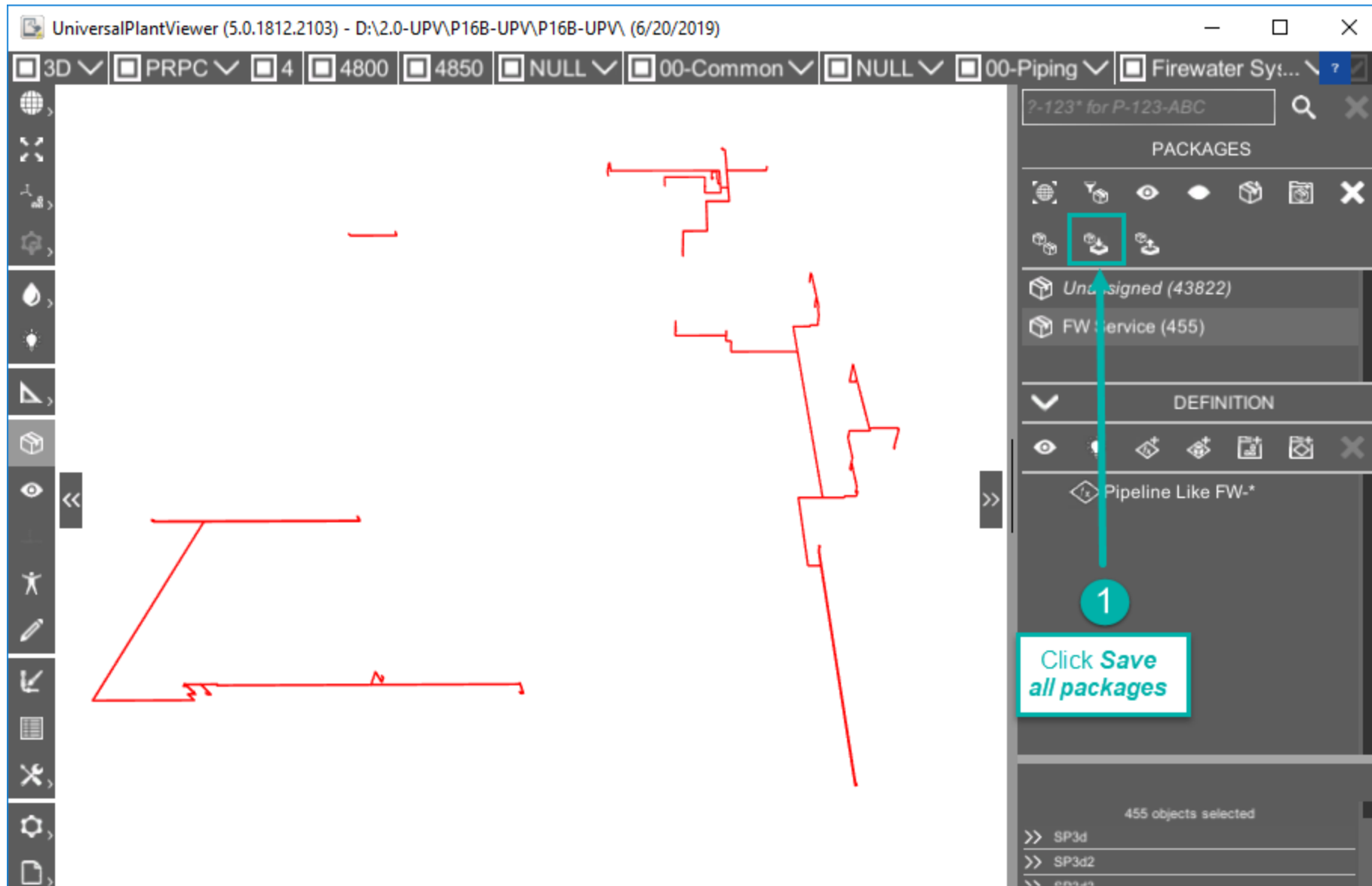
Create Package (3/4)



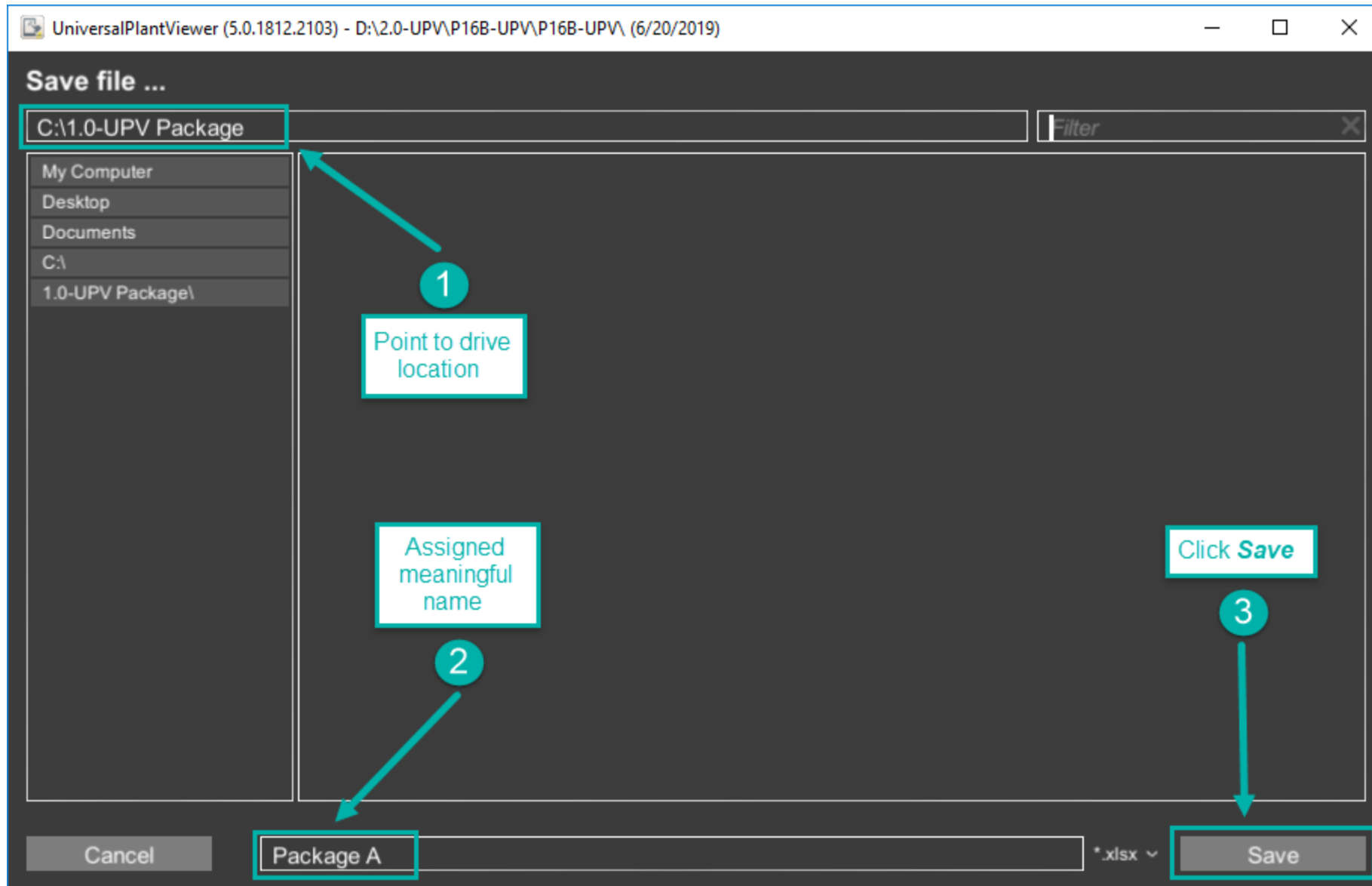
Create Package (4/4)

The screenshot displays the UniversalPlantViewer interface. The main window shows a 3D piping model with red lines. The top toolbar includes various view and object manipulation icons. On the right, the 'PACKAGES' panel is visible, showing a list of packages: 'Unassigned (43822)' and 'FW Service (455)'. A red box highlights the 'Show only package elements' icon (a cube with a magnifying glass) in the toolbar. A teal arrow points from a callout box below to this icon. The callout box contains the text: 'Click Show only package elements'. Below the 'PACKAGES' panel, the 'DEFINITION' panel shows 'Pipeline Like FW-*'. At the bottom of the sidebar, it indicates '455 objects selected'.

Save Package (1/3)



Save Package (2/3)



Save Package (3/3)

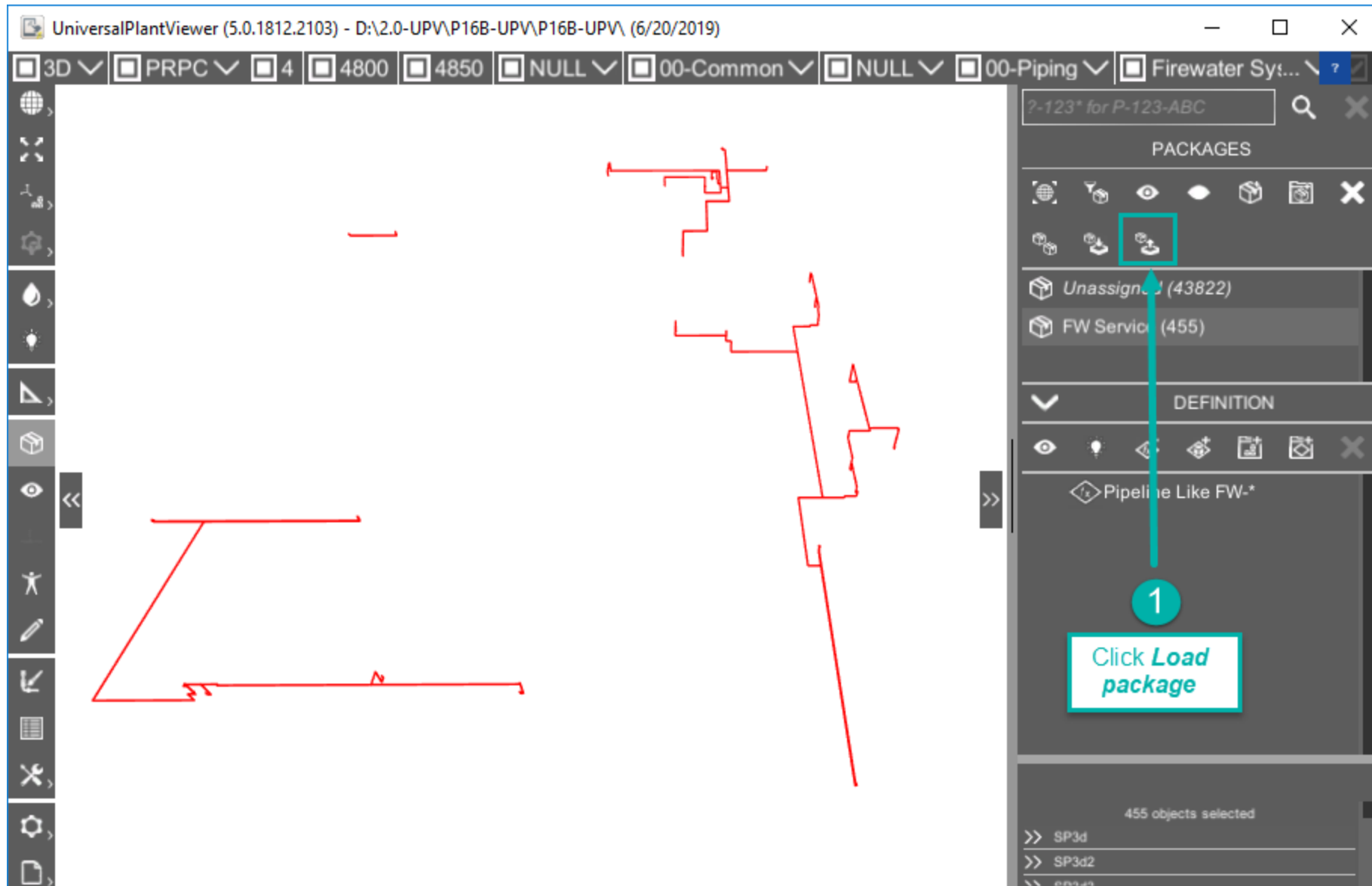
The image shows a Windows File Explorer window displaying a folder named "1.0-UPV Package" on the C: drive. Inside the folder, there is a file named "Package A.xlsx" with a size of 6 KB, last modified on 30-Jul-19 at 9:56 AM. The file is a Microsoft Excel Workbook.

Overlaid on the File Explorer is a Microsoft Excel window titled "Package A.xlsx - Excel". The ribbon is set to "Home", and the "Clipboard" group is active. The formula bar shows the value "16". The spreadsheet grid shows the following data:

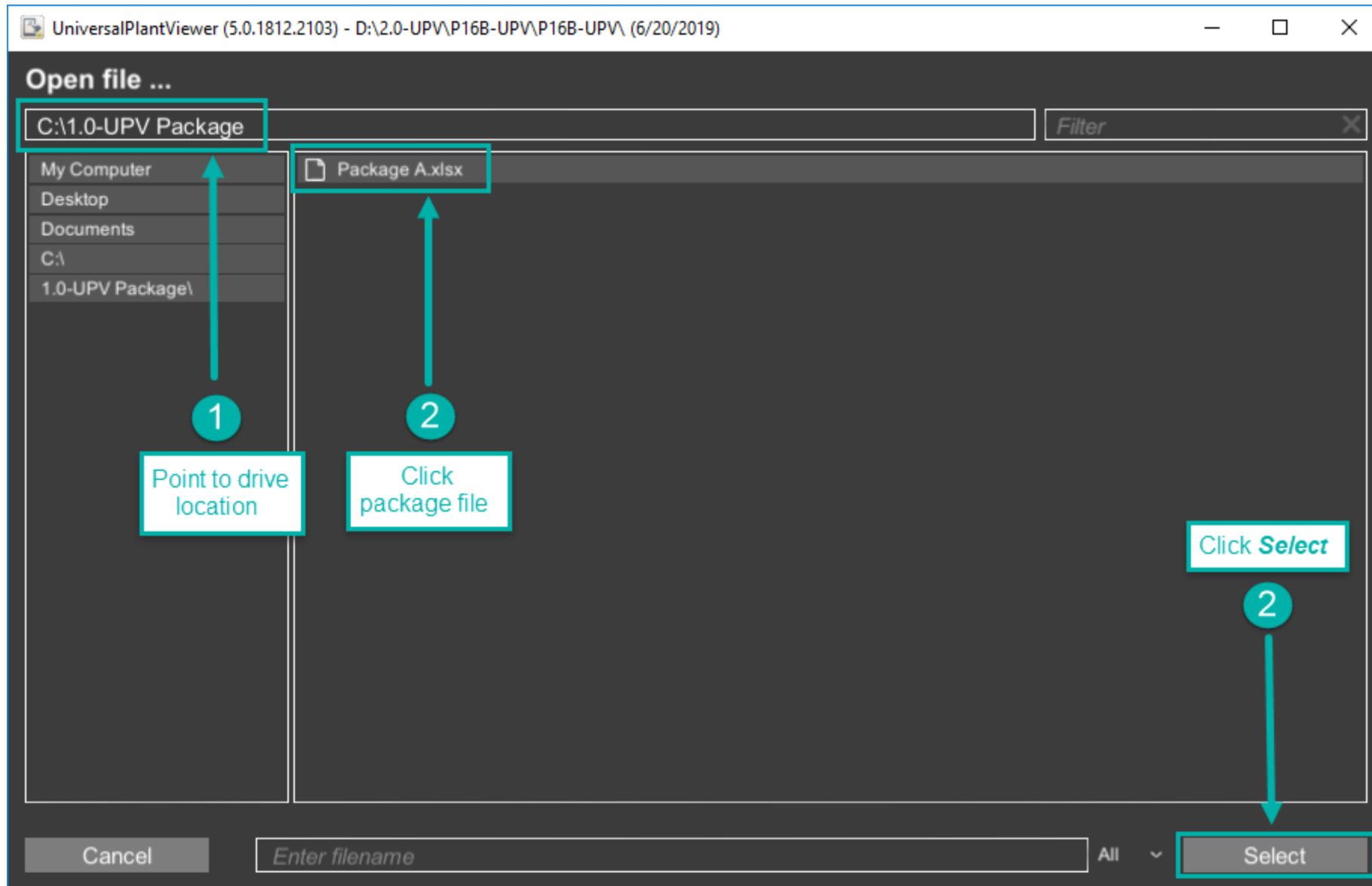
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Package	FW Service											
2		Attribute	Pipeline	Like	FW-*								
3													
4													
5													
6													
7													
8													

The Excel window also shows a taskbar at the bottom with the "Packages" folder selected. The status bar at the bottom of the Excel window indicates "Ready" and a zoom level of 100%.

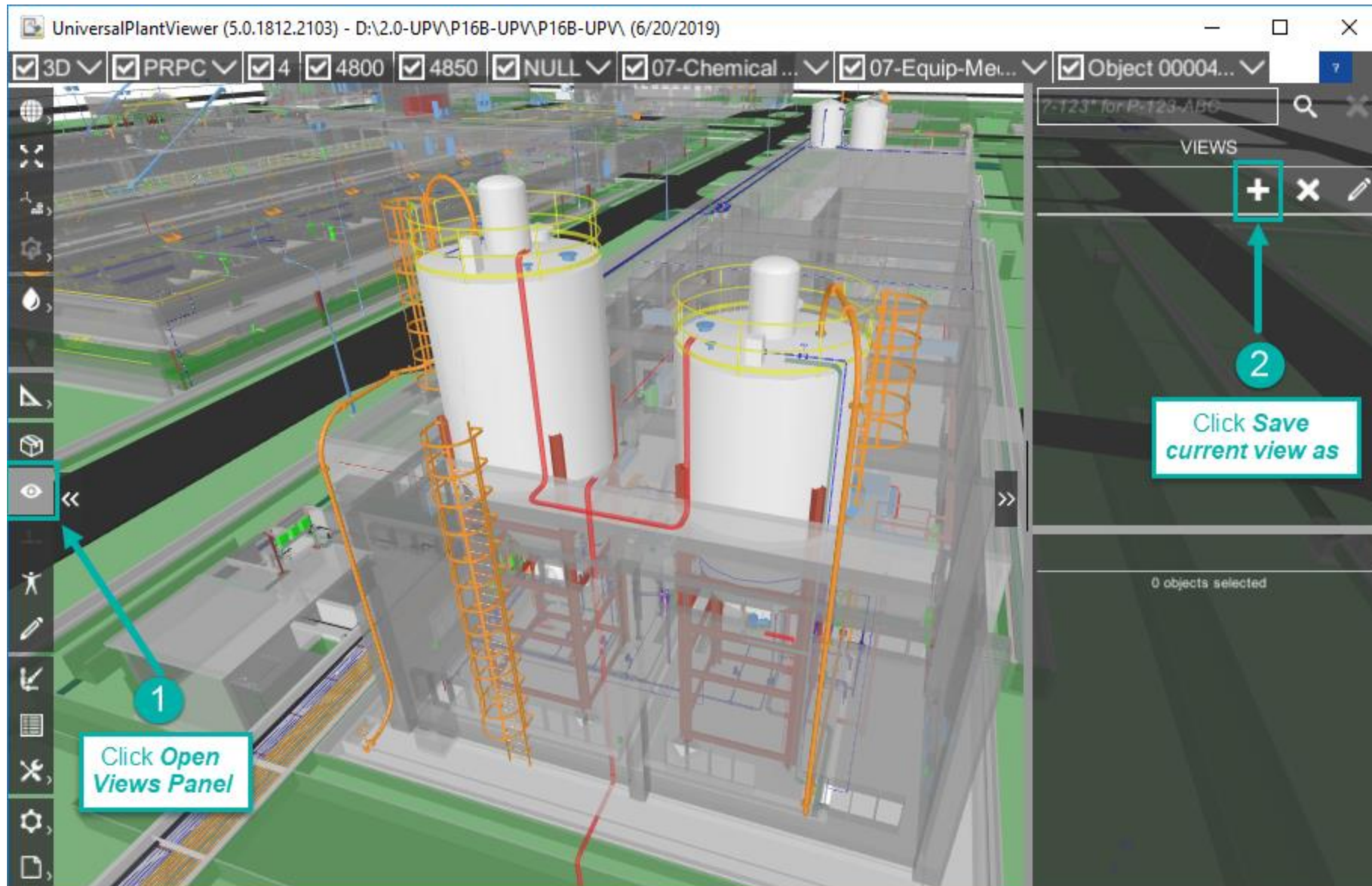
Load Package (1/2)



Load Package (2/2)



Open Views Panel (1/2)



Open Views Panel (2/2)

UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\P16B-UPV\P16B-UPV\ (6/20/2019)

3D PRPC 4 4800 4850 NULL 07-Chemical ... 07-Equip-Me... Object 00004...

7-123" for P-123-ABC

VIEWS + X

Save view

Enter the name of the new view

Lime Storage Silo

Choose affected areas

- ColorsAndVisibility
- Position
- Highlight
- Clipping
- ActiveAspects

1 Assigned meaningful name

2 Click Save

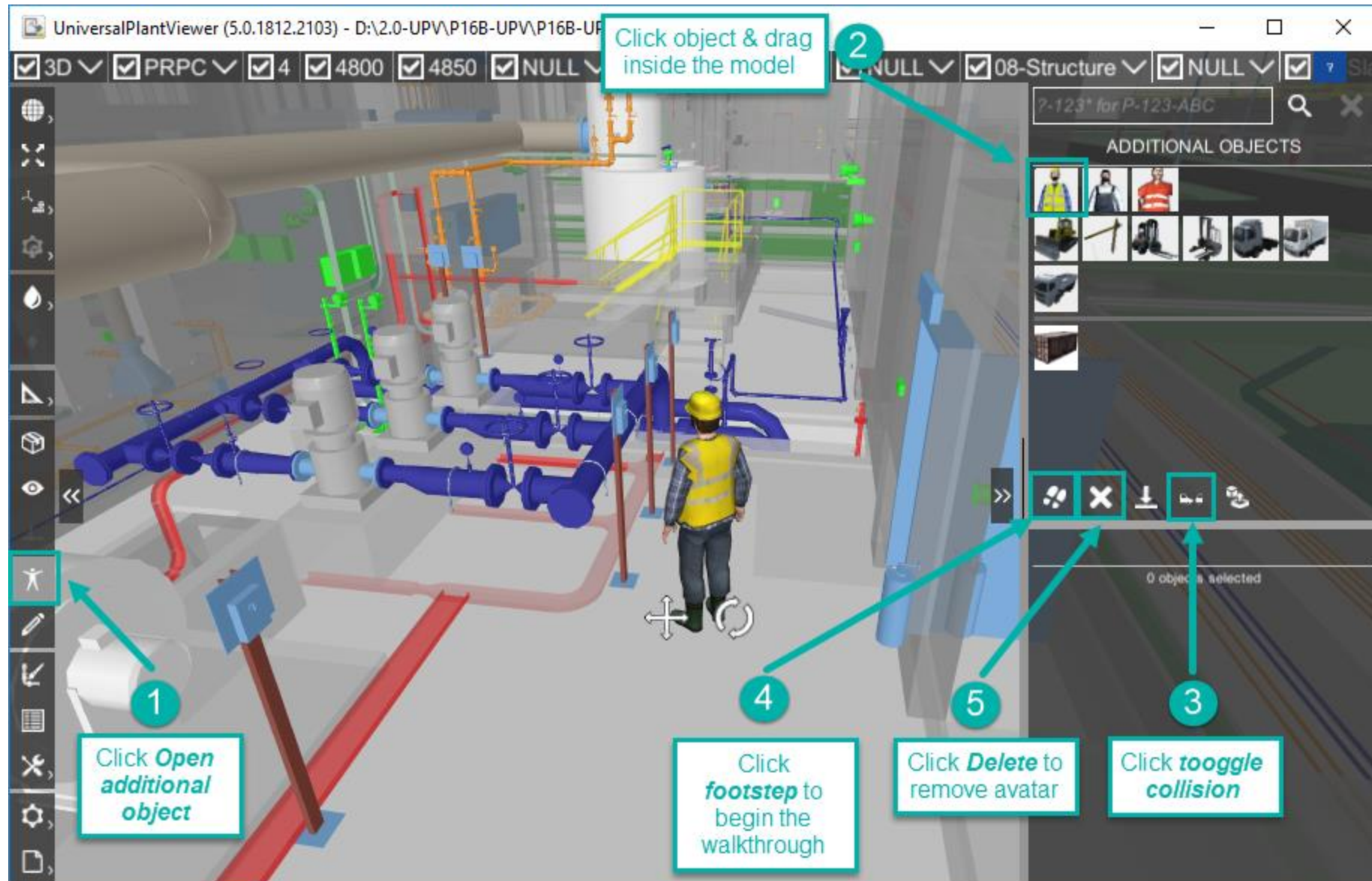
Save Cancel

1 object selected

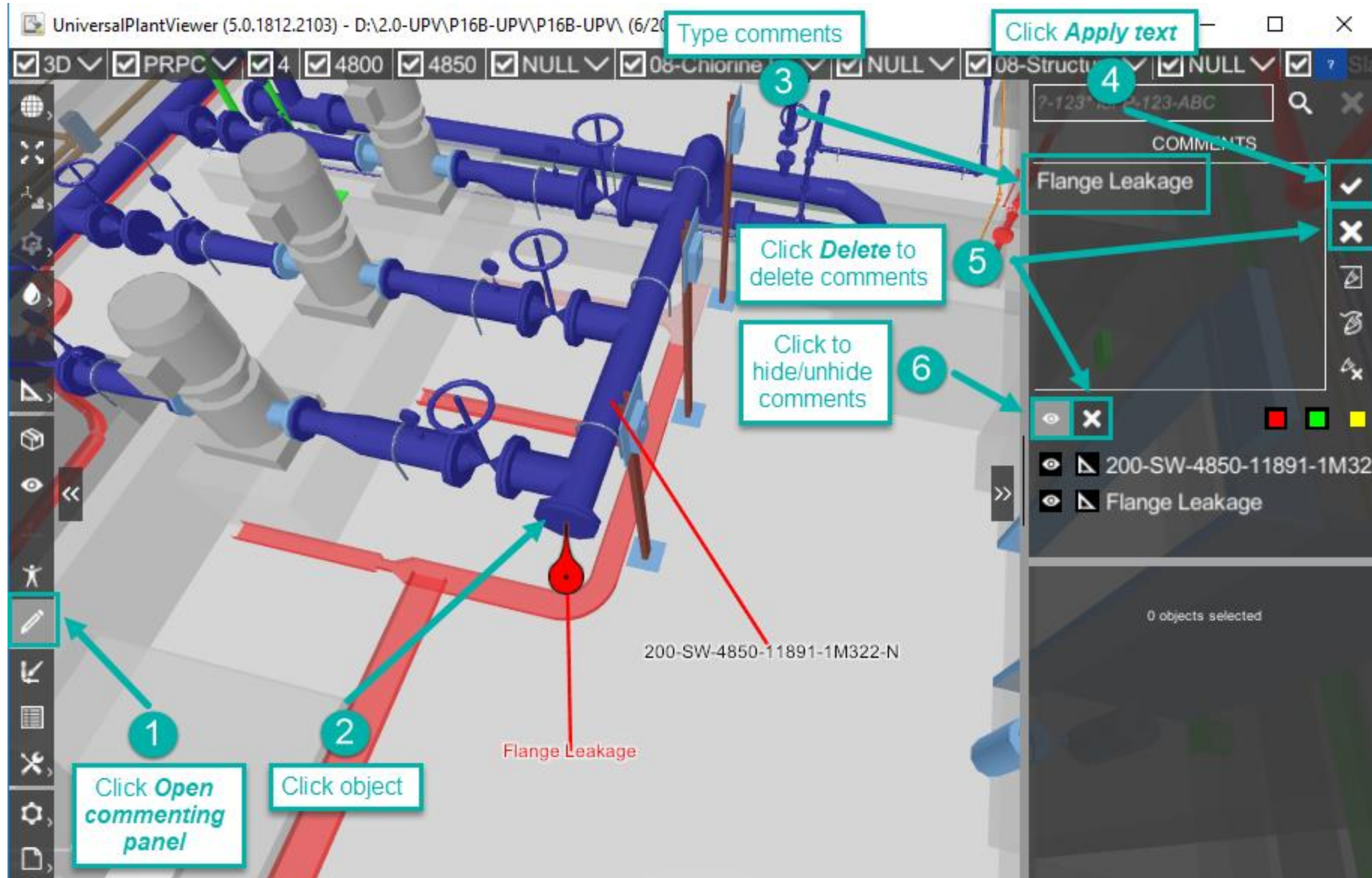
- >> SP3d
- >> SP3d2
- >> SP3d3
- >> SP3d4
- >> SP3d5
- >> SP3d6

C ElementColor	#F2F2F2
C VisibleColor	#F2F2F2
Construction Type	New
Date Created	5/19/2016 1:52:44 PM
Date Last Modified	4/6/2017 11:41:33 AM
Description	Lime Storage Silo
Eqp Type 0	Process Equipment

Open Additional Objects



Open Commenting Panel



Sketching Mode

UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\P16B-UPV\P16B-UPV\ (6/20/2019)

3D PRPC 4 4800 4850 NULL 07-Chemical I... NULL 07-Structure N ?

?-123* for P-123-ABC

ATTRIBUTES

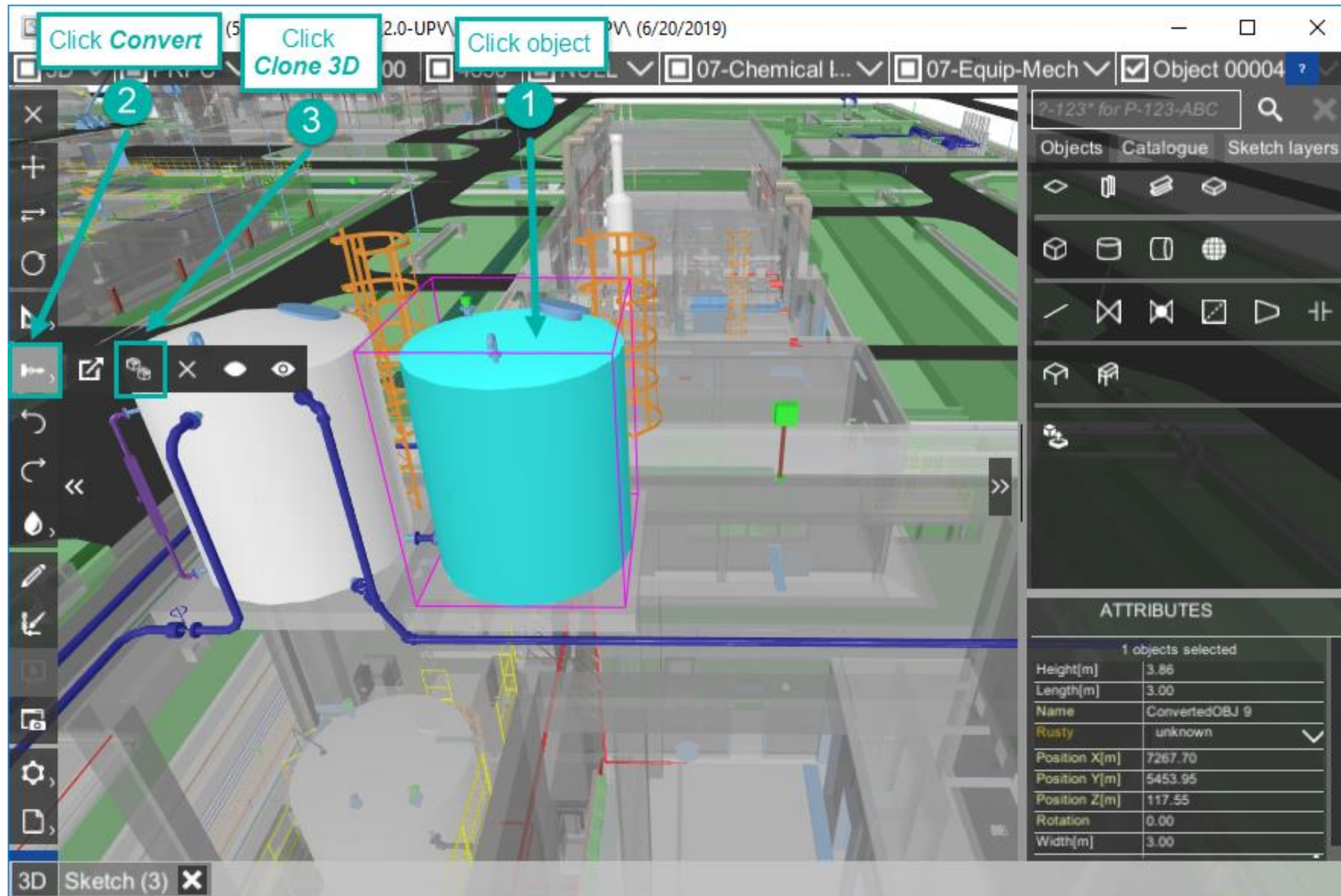
1 object selected.

- >> SP3d
- >> SP3d2
- >> SP3d3
- >> SP3d4
- >> SP3d5
- >> SP3d6
- >> SP3d7

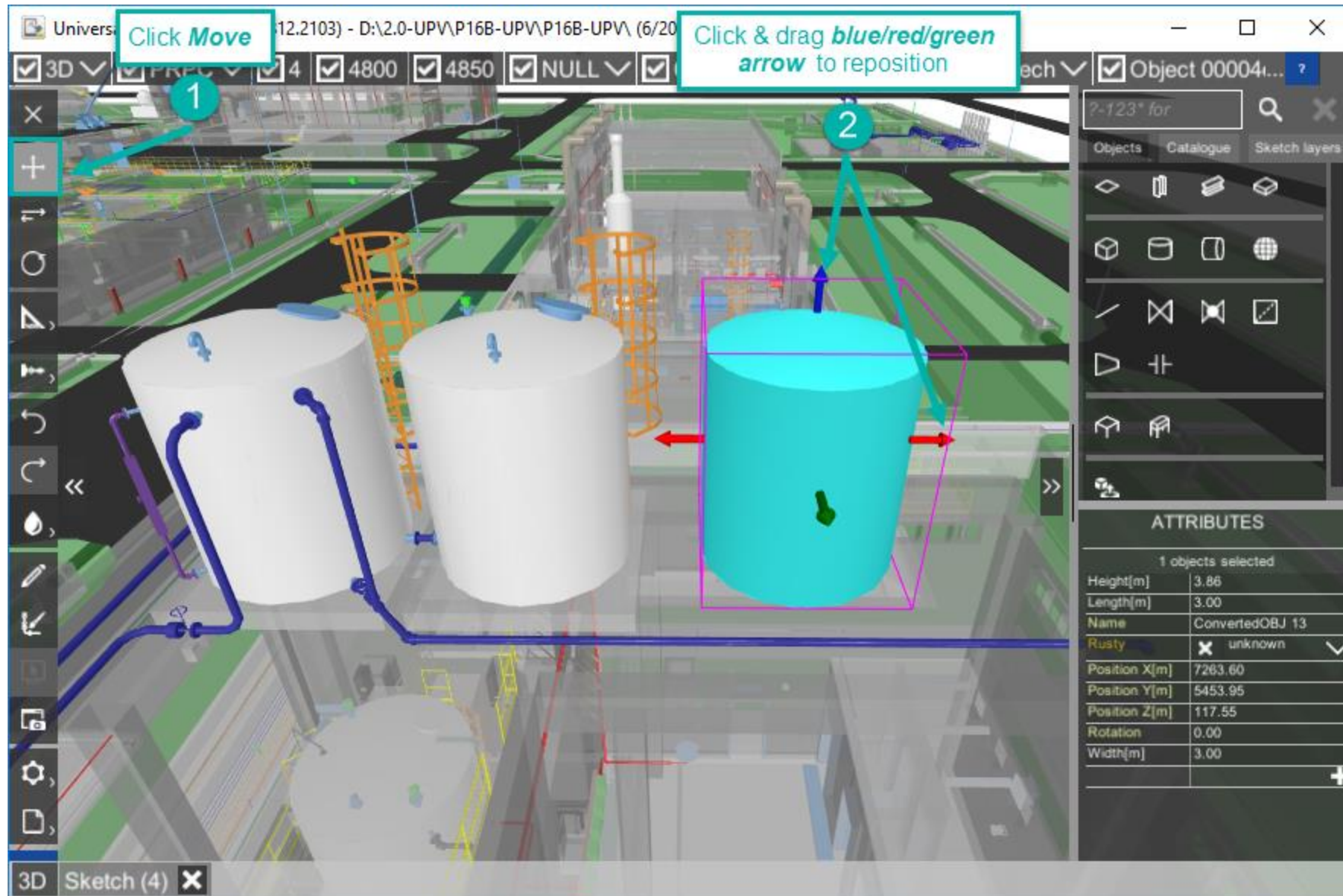
C_BOS	117.200m
C_ElementColor	#BFBFBF
C_TOS	118.300m
C_VisibleColor	#BFBFBF
Composition	CIP 4" Fc3
Date Created	7/1/2016 10:37:00 AM
Date Last Modified	6/15/2017 11:01:51 AM
Dry Weight	5153.34 kg
FileName	P016B-Unit 4850.vue
Fire Rating	2700.00 sec
Linkage	12689 -15537 22389 1053
Name	Slab-01-17107
Rusty	unknown
Net Surface Area	39502228.08 mm*2
Net Volume	2218723125.00 mm*3
Permission Group ID	4
SP3d Moniker	@a=002811240024##296489:13775858065
StaticText	example(structure)
Status	Working
System Path	PRPC\14\4800\4850\07-Chemical Building\07-Structure\07-Slab
Task	Structure
Uid	0003a998-0000-0000-9131-4fc375571d04

1 Click Open sketch mode

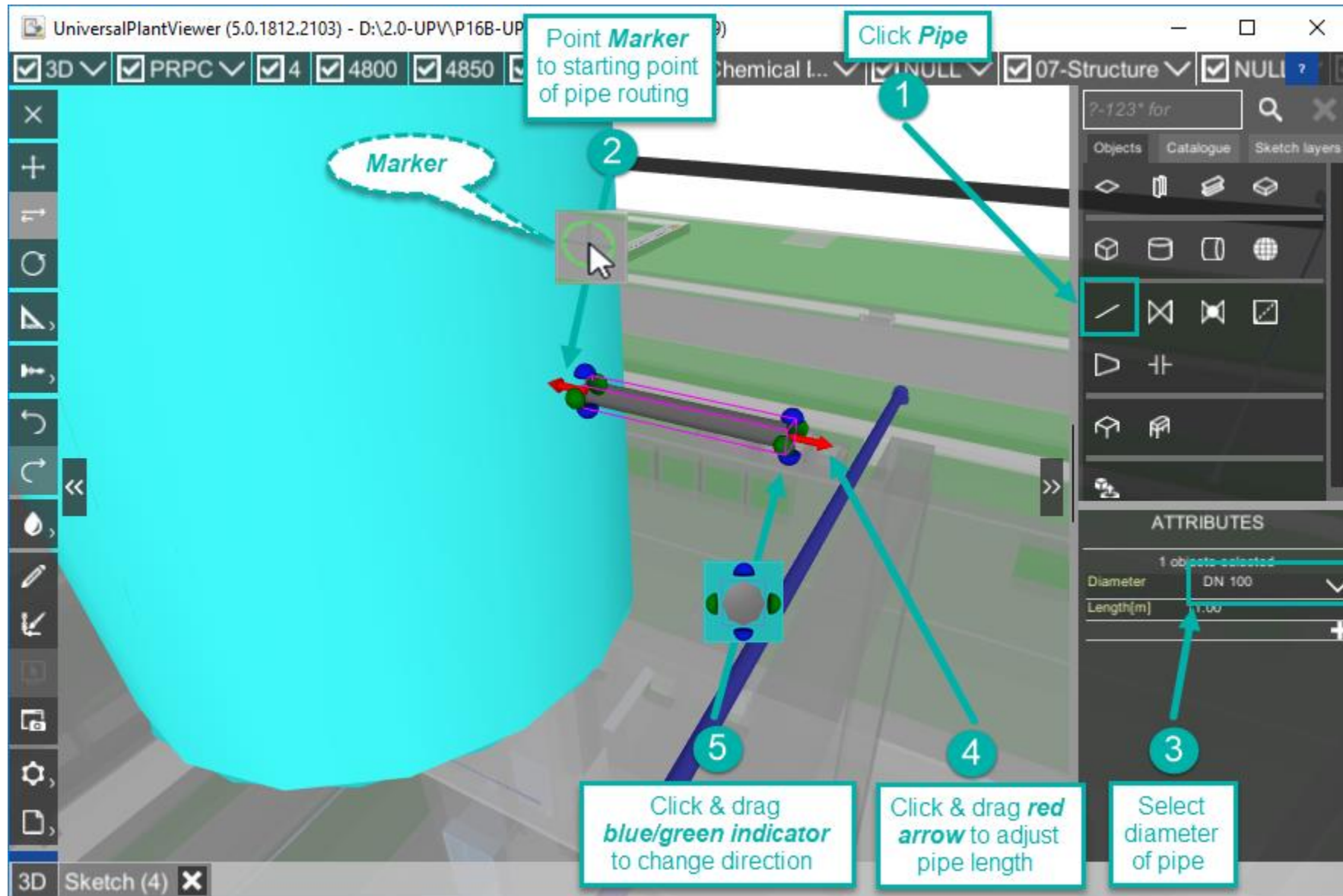
Sketching Mode : Clone Object (1/2)



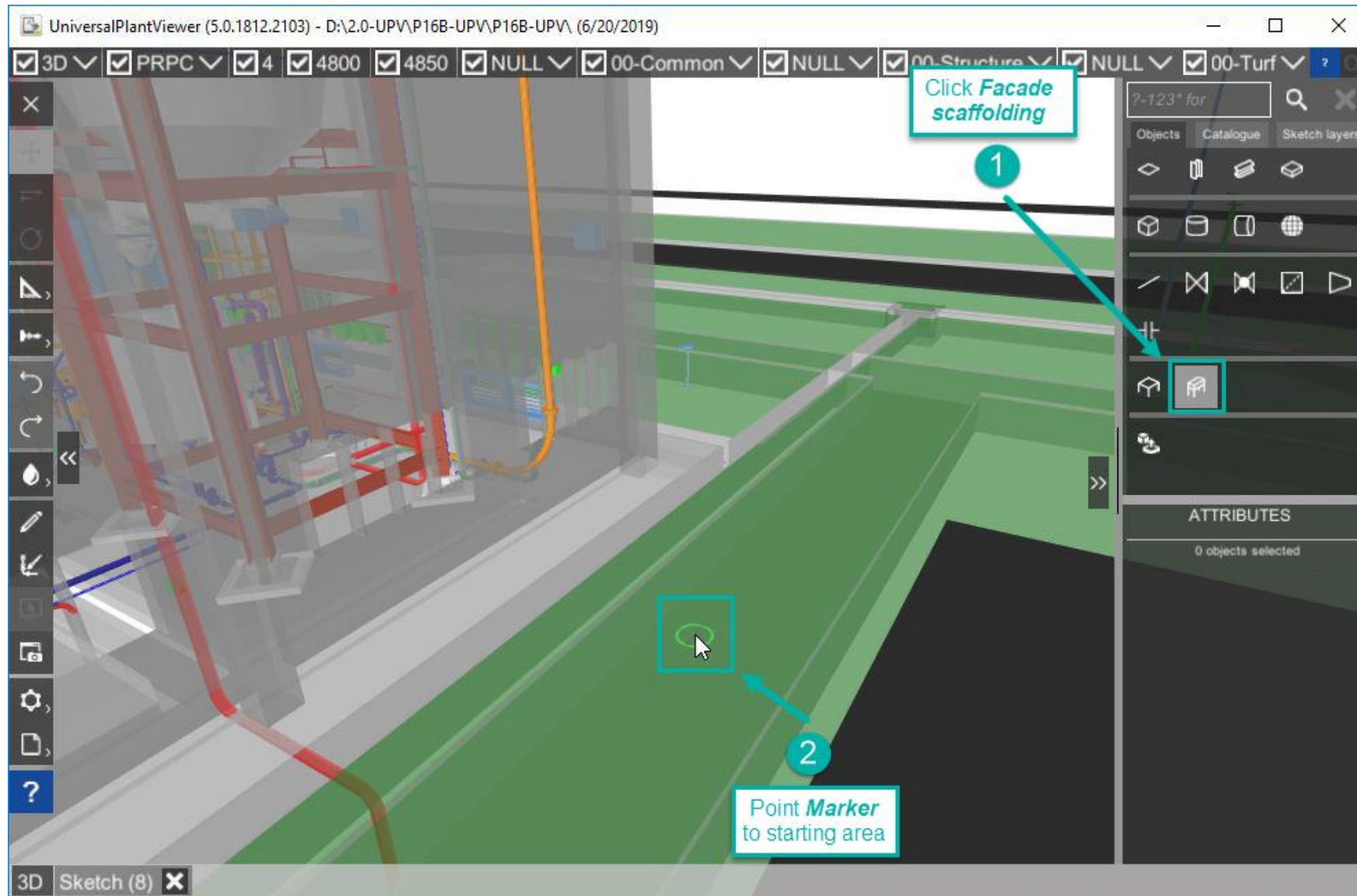
Sketching Mode : Clone Object (2/2)



Sketching Mode: Pipe Routing



Sketching Mode : Scaffolding (1/2)



Sketching Mode : Scaffolding(2/2)

The screenshot shows the UniversalPlantViewer interface with a 3D model of a scaffolding structure. The software title bar indicates the version is 5.0.1812.2103 and the file path is D:\2.0-UPV\16B-UPV\16B-UPV\ (6/20/2019). The top toolbar contains various object selection and manipulation tools. The main 3D view shows a complex scaffolding structure with a staircase. Four numbered callouts (1, 2, 3, 4) point to specific UI elements: 1 points to a scaffolding object, 2 points to the 'Save sketches *.json format' button, 3 points to the 'Load sketches *.json format' button, and 4 points to the 'Sketch' tab in the bottom toolbar. A properties panel on the right side of the interface shows the attributes for the selected scaffolding object.

Save sketches *.json format

Load sketches *.json format

1 Click scaffolding & change the attributes

2

3

4 Click **tab** to activate/deactivate mode

1 objects selected

Symbol Attributes	
Bracket	False
Ladder	False
StairTower	True

3D Sketch (1) X Sketch (2) X

Custom Attributes (1/3)

The image shows a file explorer on the left and a Microsoft Excel spreadsheet on the right. The file explorer displays a directory structure with folders like 'colorfiles', 'lod0nodes', 'lod1nodes', etc., and files like 'activeAttributeConfiguration.csv', 'attributeKeys.bytes', and 'attributes.xlsx'. The 'attributes.xlsx' file is highlighted with a red box. A red arrow points from this file to a red box containing the text 'Open attributes.xlsx file from UPV > Data folder'. Another red arrow points from this box to a red box containing '3-UPV > DATA >'. The Excel spreadsheet is open to the 'attributes.xlsx' file, showing a table with columns: Id, Name, SourceAttribute, Filter, DataType, DefaultValue, Parameter1, Parameter2, and Parameter3. The table contains data for construction states like 'ConstructionState', 'Rusty', 'Leakage', and 'Remark'. A red box with the text 'Edit/Custom required attributes in Excel' is overlaid on the spreadsheet. The Excel ribbon shows the 'Data' tab selected.

Open *attributes.xlsx* file from UPV > Data folder

3-UPV > DATA >

Id	Name	SourceAttribute	Filter	DataType	DefaultValue	Parameter1	Parameter2	Parameter3
1	ConstructionState	Pipeline		Codelist	unknown	CS_State		
2	Rusty	Name		Codelist	unknown	CS_YNU		
3	Leakage	Name	Task=piping	Codelist	unknown	CS_YNU		
4	Remark	Name		FreeText				

Edit/Custom required attributes in Excel

Custom Attributes (2/3)

UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\P16B-UPV\P16B-UPV\ (6/20/2019)

3D PRPC 4 4800 4850 NULL 00-Common NULL 00-Piping High Pressur... NULL

7-123" for P-123-ABC

ATTRIBUTES

1 object selected

- >> SP3d
- >> SP3d2
- >> SP3d3
- >> SP3d4
- >> SP3d5
- >> SP3d6
- >> SP3d7

Commodity Code	F315D
Commodity Option	F315
Construction Type	New
Date Created	6/7/2017 11:56:03 AM
Date Last Modified	6/20/2017 10:53:50 AM
Description	Slip On Flg, ASME B16.5, CL150, FF, PVC, Solvent Weld.
Design Max Pressure	11.01 bar
Design Max Temperature	40.00 C
FileName	P016B-Unit 4850.vue
Flow direction	In
Linkage	12757 19245 22839 1057
Location	E 7429314 mm N 5490855 mm EL+ 109532 mm
Name	Flange-35501
Rusty	unknown
Leakage	unk
Remark	unknown
NPD	100M
Permission Group ID	4
Pipeline	SW-
ConstructionState	unk
PipeRun	100-I
Pwinc	P016B-Unit 4850
Recognized	Full
Reporting Type	Included in Material Control System
ShortCode	Flange
SP3d Monitor	@a=0027!90005W29761714440249813
Status	Working
System Path	PRPC\4\4800\4850\00-Common\00-Piping\High Pressure Ring Main
Task	pipwnc

1 Click object

2 Click *Custom attributes* drop down list & assign the value

Custom Attributes (3/3)

UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\16B-UPV\16B-UPV\ (6/20/2019)

3D PRPC 4 4800 4850 NULL 01-Aerator NULL 01-Structure 01-Slab Obj 7 100

7-123* for P-123-ABC

CUSTOM ATTRIBUTES

Rusty

unknown

No

Yes

Can't check

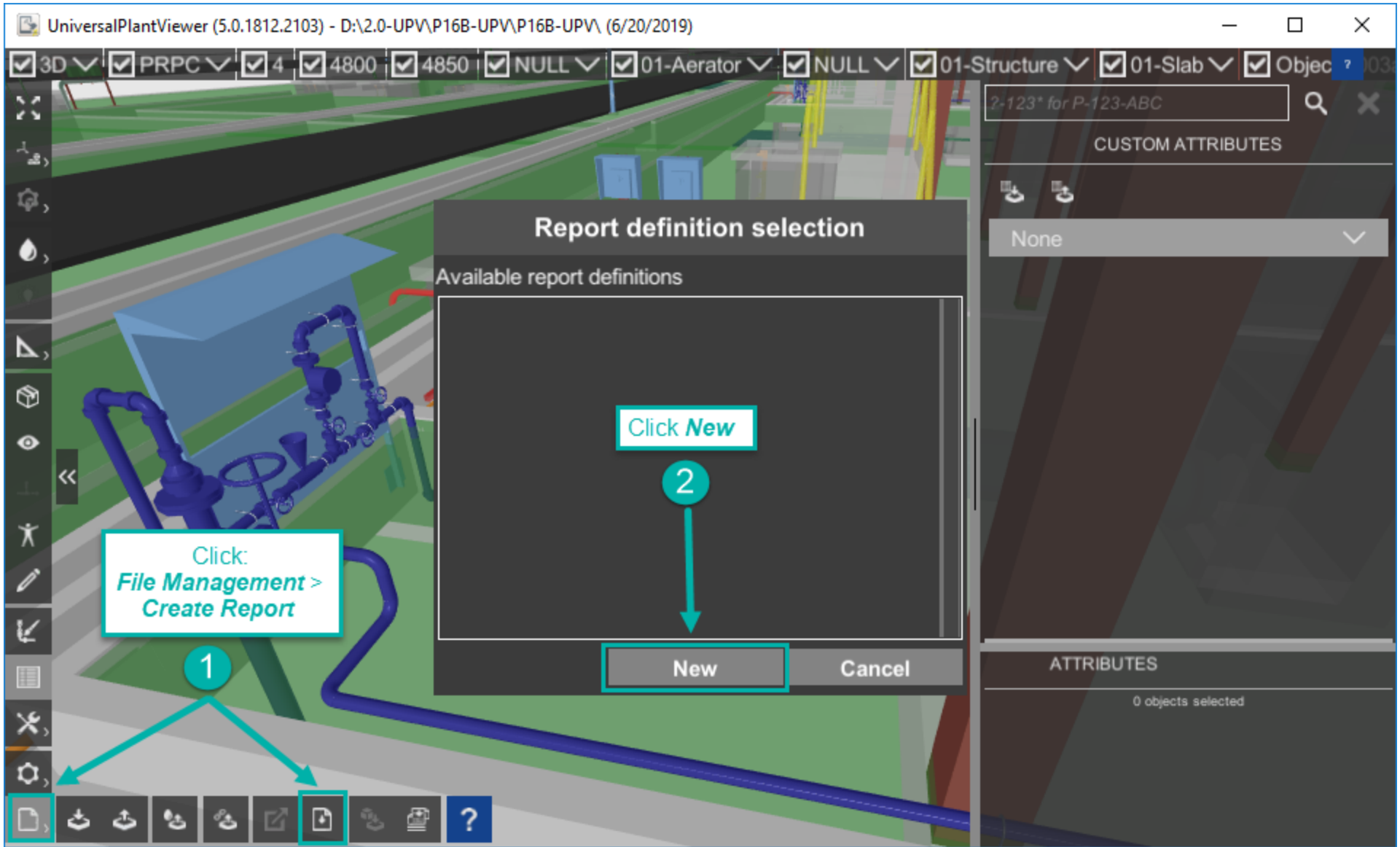
1 Click *Open Custom Attributes*

2 Click *Custom Attributes*

ATTRIBUTES

0 objects selected

Create Report (1/4)



Create Report (2/4)

UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\P16B-UPV\P16B-UPV\ (6/20/2019)

3D PRPC 4 4800 4850 NULL 01-Aerator NULL 01-Structure 01-Slab Objec ? 03

Click **Export element** 1

Report attributes

New report 2

Include sketch data

Choose export elements

All Selected Visible

Available attributes

Part Number
Percent Fill
Permission Group ID
Pipeline
PMRC
Port No
Rating
Recognized
Reference
Remark
Reporting Type
RunName

Selected attributes

Rusty
Name
NPD
Description
PipeRun

Select from **Available attributes** & drag into **Selected attributes** list 2

None

Click **OK** 3

Reset OK Cancel

ATTRIBUTES

0 objects selected

Create Report (3/4)

The screenshot shows the 'New report 2 (31916 rows)' window in UniversalPlantViewer. The window title is 'UniversalPlantViewer (5.0.1812.2103) - D:\2.0-UPV\P16B-UPV\P16B-UPV\ (6/20/2019)'. The interface includes a toolbar on the left with icons for refresh, zoom, filter, settings, save, and funnel. The main area displays a table with columns: Name, NPD, Description, and PipeRun. The table lists various equipment items such as Spectacle Blind, Slip On Flg, 90 Deg. Elbow, and Tee. Two callouts are present: a red circle with '1' pointing to the settings icon with the text 'To customise report attributes', and a red circle with '2' pointing to the save icon with the text 'To save the report into excel format'. At the bottom left, a '3D' button is highlighted with a red box, and a 'New report 2' button is visible next to it.

Name	NPD	Description	PipeRun
Spectacle Blind-9748	50mm x 50mm	Spectacle Blind, ASME B16.48,	50-SW-4850-11817-1N321-N
Slip On Flg, ASME B16.5,	50mm x 50mm	Slip On Flg, ASME B16.5,	50-SW-4850-11817-1N321-N
Slip On Flg, ASME B16.5,	50mm x 50mm	Slip On Flg, ASME B16.5,	50-SW-4850-11817-1N321-N
90 Deg. Elbow, MS 628, Socket	50mm x 50mm	90 Deg. Elbow, MS 628, Socket	50-SW-4850-11817-1N321-N
Pipe, MS 628, PE, PVC-U,	50mm x 50mm	Pipe, MS 628, PE, PVC-U,	50-SW-4850-11817-1N321-N
4850MOV-8233	2in x 2in	Electromagnetic flow instrument,	50-SW-4850-11817-1N321-N
90 Degree Direction	50mm x 50mm	90 Deg. Elbow, MS 628, Socket	50-SW-4850-11828-1N321-N
90 Degree Direction	50mm x 50mm	90 Deg. Elbow, MS 628, Socket	50-SW-4850-11828-1N321-N
Tee-15711	50mm x 50mm	Equal Tee, MS 628, Socket Ends,	50-SW-4850-11828-1N321-N
45 Degree Direction	50mm x 50mm	45 Deg. Elbow, MS 628, Socket	50-SW-4850-11828-1N321-N
Flange-32606	50mm x 50mm	Slip On Flg, ASME B16.5,	50-SW-4850-11828-1N321-N
90 Degree Direction	50mm x 50mm	90 Deg. Elbow, MS 628, Socket	50-SW-4850-11828-1N321-N
90 Degree Direction	50mm x 50mm	90 Deg. Elbow, MS 628, Socket	50-SW-4850-11828-1N321-N
Ball Valve-8611	50mm x 50mm	Ball Vlv SP Full Bore, BS EN	50-SW-4850-11828-1N321-N
90 Degree Direction	50mm x 50mm	90 Deg. Elbow, MS 628, Socket	50-SW-4850-11828-1N321-N
Spectacle Blind-11242	50mm x 50mm	Spectacle Blind, ASME B16.48,	50-SW-4850-11828-1N321-N
Ball Valve-4219	50mm x 50mm	Ball Vlv SP Full Bore, BS EN	50-SW-4850-11828-1N321-N

Create Report (4/4)

Rusty Custom Attributes.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Tell me what you want to do... Khairul Ikhwan Zakiria (GTS/PD&T) Share

Clipboard Font Alignment Number Styles Cells Editing

D31920

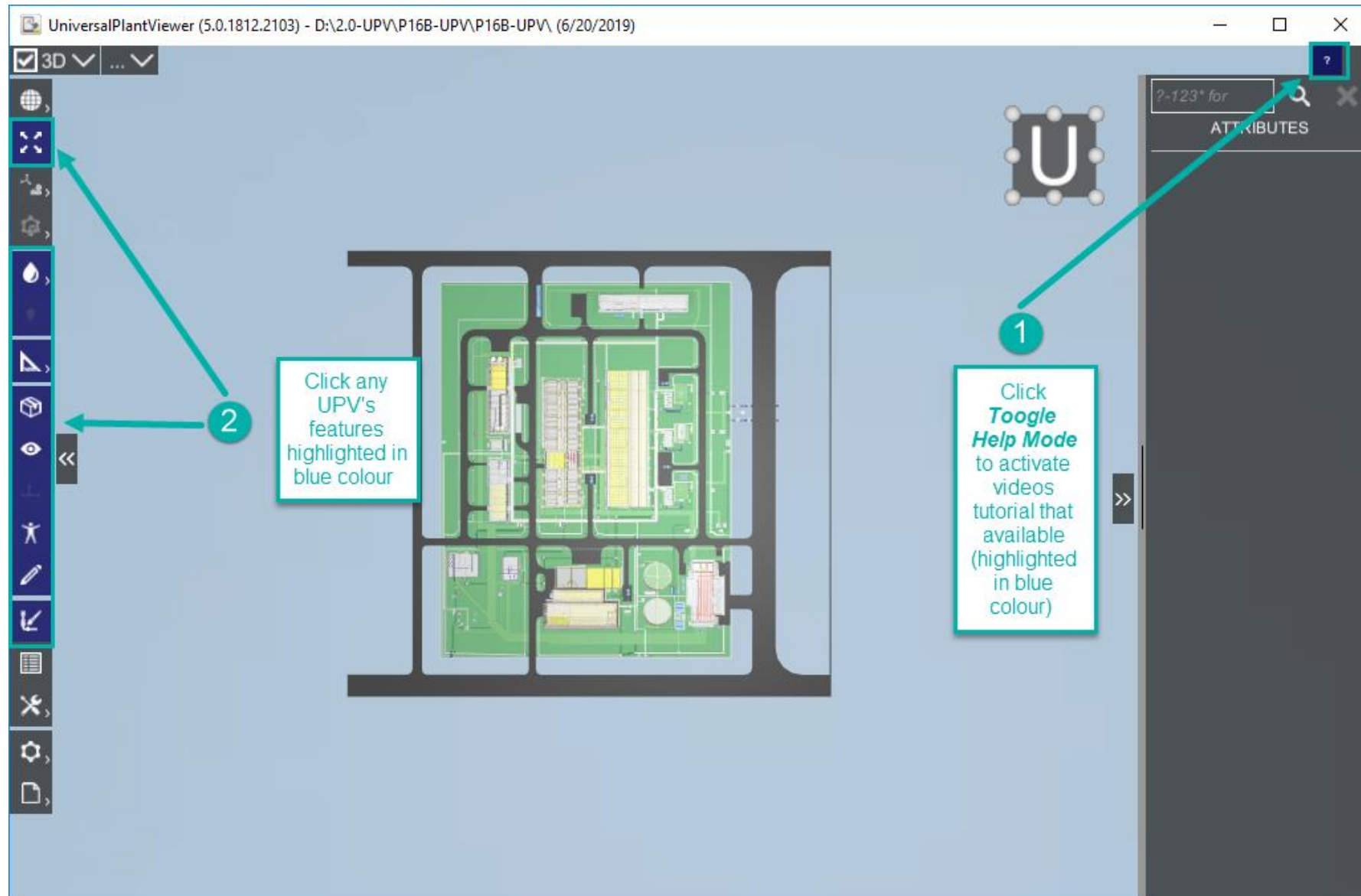
	A	B	C	D	E
1	Rusty	Name	NPD	Description	PipeRun
19169	No	Flange-35501	100MM x 100MM	Slip On Flg, ASME B16.5, CL150, FF, PVC, Solvent Weld.	100-SW-4850-11828-1N321-N
26232	No	Spectacle Blind-9537	25mm x 25mm	Spectacle Blind, ASME B16.48, CL150, FFTBE, SS304, JIS B2220 10K	25-RW-4850-00074-1N321-N
26324	Yes	Spectacle Blind-9538	25mm x 25mm	Spectacle Blind, ASME B16.48, CL150, FFTBE, SS304, JIS B2220 10K	25-RW-4850-01074-1N321-N
28675	Can't check	Spectacle Blind-10518	50mm x 50mm	Spectacle Blind, ASME B16.48, CL150, FFTBE, SS304, JIS B2220 10K	50-CCL-4850-01810-1N321-N
30201	Yes	90 Degree Direction Change-35728	50mm x 50mm	90 Deg. LR Elbow, ASME B16.9, BE, ASTM A234-WPB, Seamless	50-SW-4850-10027-1C321-N
30203	Yes	Flange-32643	50mm x 50mm	WN Flg., ASME B16.5, CL 150, RFFE, ASTM A105	50-SW-4850-10027-1C321-N
30511	No	Flange-19156	50mm x 50mm	Slip On Flg, JIS B2220, JIS 10K, FF, PVC, Solvent Weld.	50-SW-4850-11828-1N321-N
30512	Yes	90 Degree Direction Change-35708	50mm x 50mm	90 Deg. Elbow, MS 628, Socket End, PVC, Solvent Weld	50-SW-4850-11828-1N321-N
30520	No	90 Degree Direction Change-17586	50mm x 50mm	90 Deg. Elbow, MS 628, Socket End, PVC, Solvent Weld	50-SW-4850-11828-1N321-N
30524	Can't check	Flange-36453	50mm x 50mm	Slip On Flg, ASME B16.5, CL150, FF, PVC, Solvent Weld.	50-SW-4850-11828-1N321-N
30528	Yes	90 Degree Direction Change-37402	50mm x 50mm	90 Deg. Elbow, MS 628, Socket End, PVC, Solvent Weld	50-SW-4850-11828-1N321-N
31917					

New Worksheet

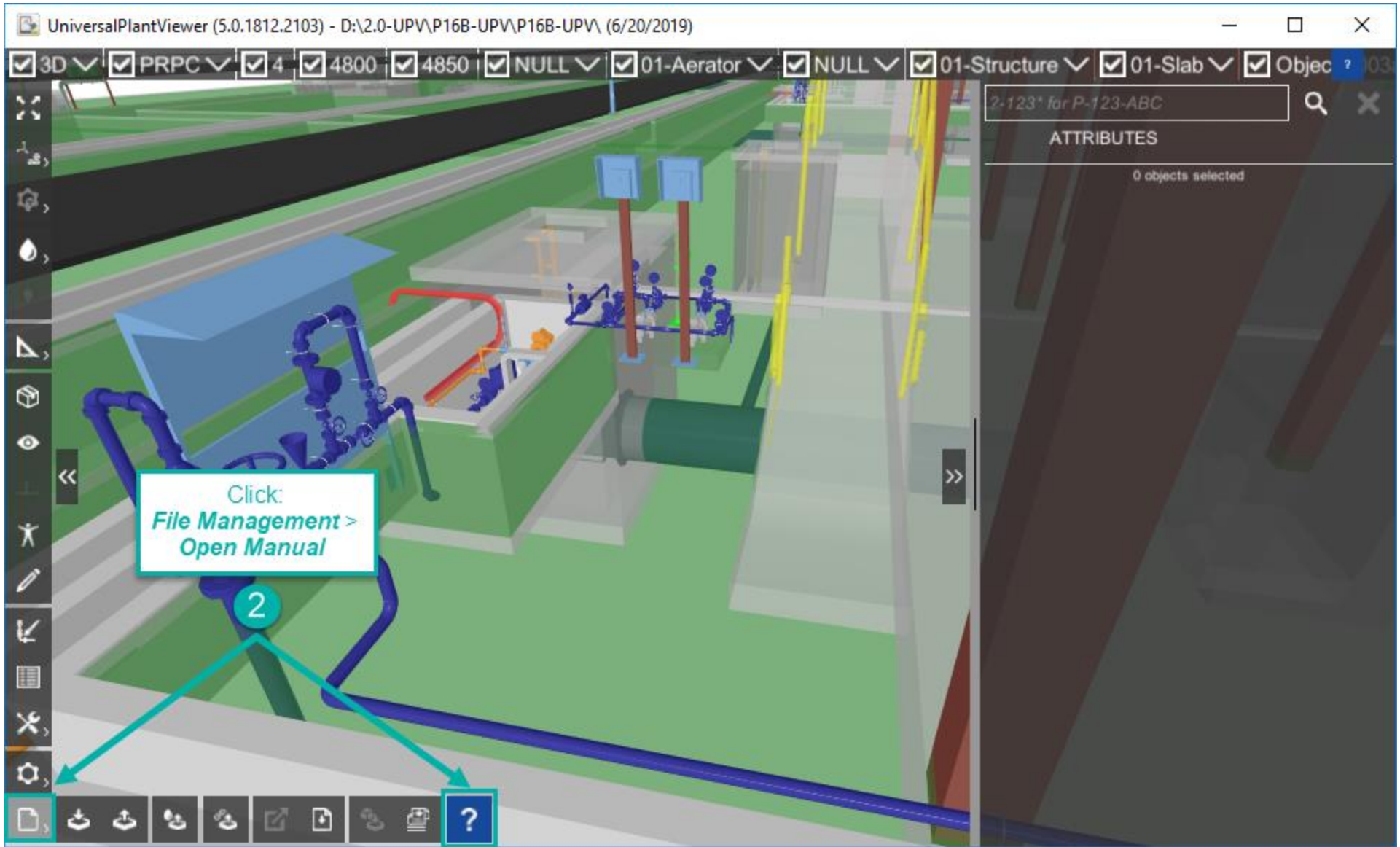
Ready 12 of 31916 records found

100%

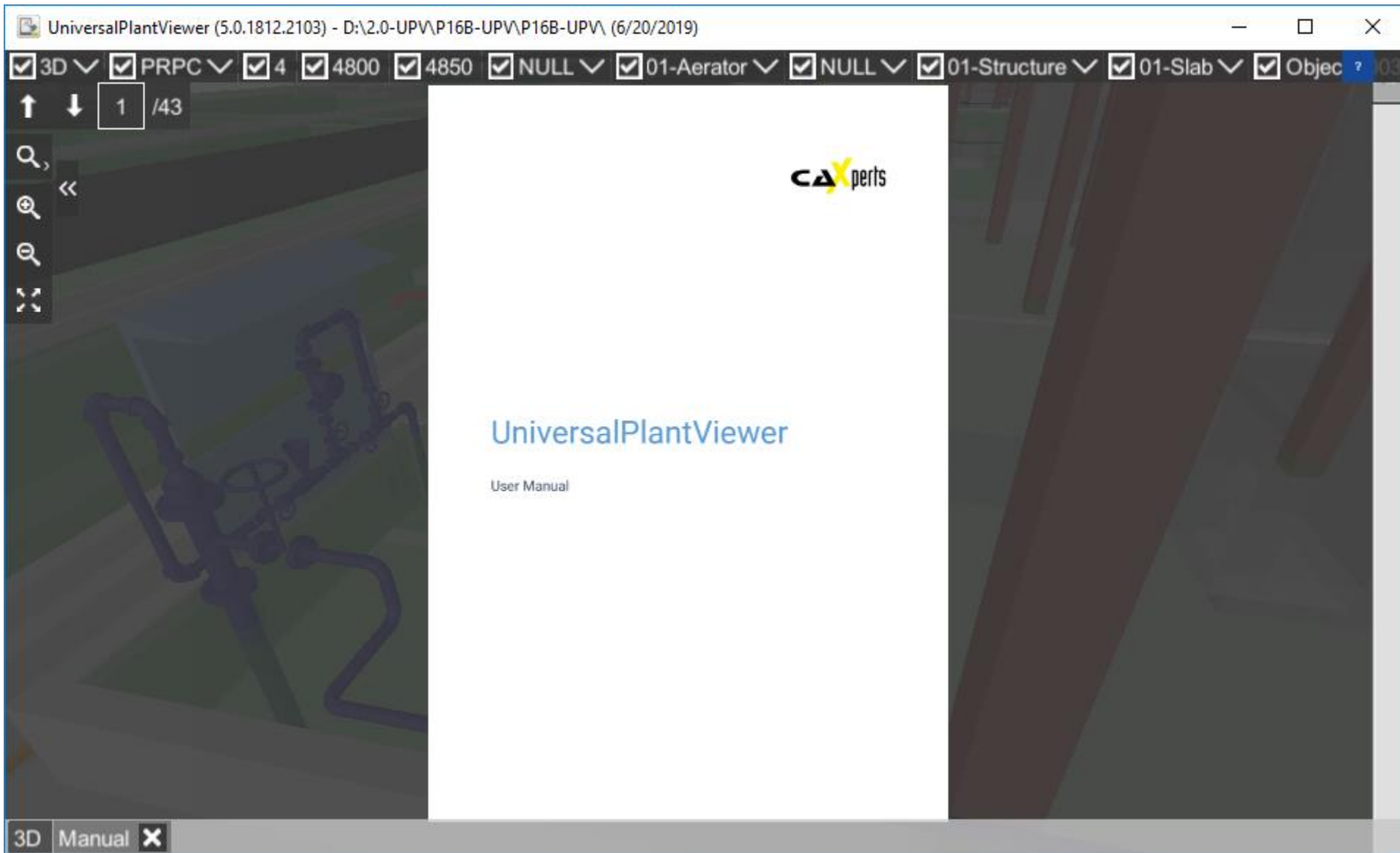
Open Video Tutorial



Open Manual Document (1/2)



Open Manual Document (2/2)



INCIDENT ESCALATION – CONTACT PIC SSC

Should you encounter any technical issues, you can reach out to the PIC Shared Service Centre



Log an Issue on PIC SSC Portal

Step 1

Access the PIC SSC Portal

You may access the portal [here](http://picssc.petronas.com) (picssc.petronas.com)

Step 2

Log an Issue for ICT Services

Select this icon to log a new issue:



Step 3

Complete the required fields

Click "Submit" once the required fields are completed.



Email PIC Call Centre

pic.callcentre@petronas.com

Step 1

Include these descriptions in the email:

- Your contact name
- What system is having the problem (i.e.: Safety & Environment - Process Safety) Application) on brief description
- Plant/Department name of user
- Nature description of the problem (e.g. access issue, cannot save etc.)
- Error message as it appears or description.
- Number of affected users (affecting other users? Department?)



(.msg)



Contact PIC Call Centre agents through web chat



Step 1

Access the PIC SSC Portal

You may access the portal [here](http://picssc.petronas.com) (picssc.petronas.com)

Step 2

Launch Application

Select the chat icon in the PIC SSC Portal:

Step 3

Ask our PIC SSC Virtual Agent

Enter your question in the chatbox. You will be provided with a list of knowledge articles that may answer your question.

Step 4

Chat with a PIC Call Centre Agent

If you have further enquiries, select the Chat Now icon to contact a PIC call centre executive.



Call PIC Call Centre

Location	Operation Hours	Number
Inter-Department in Pengerang	24 hours Monday to Sunday	1 1000
Internal in Pengerang		8 481 1000
External of Pengerang		07 817 1000



THANK YOU

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