

Fortescue Training

Solomon Isolation Database

User's Manual

10/08/2017

Version 1.0.0.4



Fortescue
The New Force in Iron Ore

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	Fortescue Permit To Work User's Manual		"[Document Number]"
Revision Number	0		Click here to enter a date.
Status	DRAFT		
Author	Cong Nguyen	Signature	Click here to enter a date.
Checked	First Name Surname Here	Signature	Click here to enter a date.
Approved	First Name Surname Here	Signature	Click here to enter a date.
Confidentiality	FORTESCUE STAFF & CONTRACTORS	Publish on Extranet	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Review Date	Click here to enter a date.		

Revision History (to be completed for each version retained by Document Control)

Author	Checker	Approver	Rev No.	Status	Issued Date
Initial/Surname	Initial/Surname	Initial/Surname		Choose an item.	Click here to enter a date.

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1. INTRODUCTION

1.1 PURPOSE

This document contains general information that will be useful to know before using Solomon Isolation Database Application.

1.2 APPLICATION OVERVIEW

Solomon Isolation Database is a software program that is used to generate Isolation Statements, Specific Isolation Requirements, Permit to Work in alignment with FMG Standard and Procedure.

MAJOR FEATURES

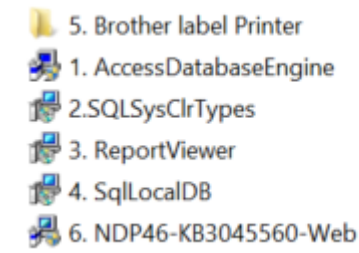
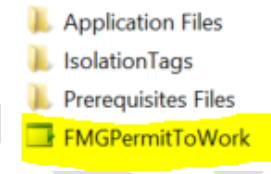

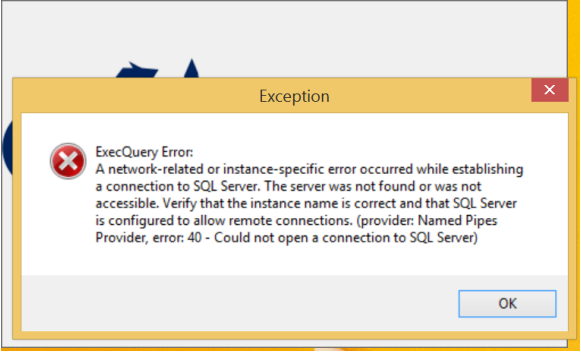
- Generate Isolation Statements
- Generate Specific Isolation Requirements (SIR)
- Generate Permit To Work

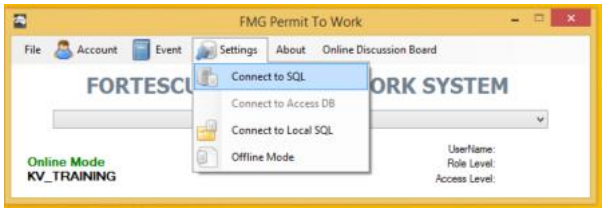
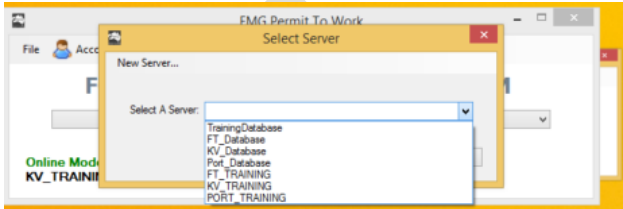
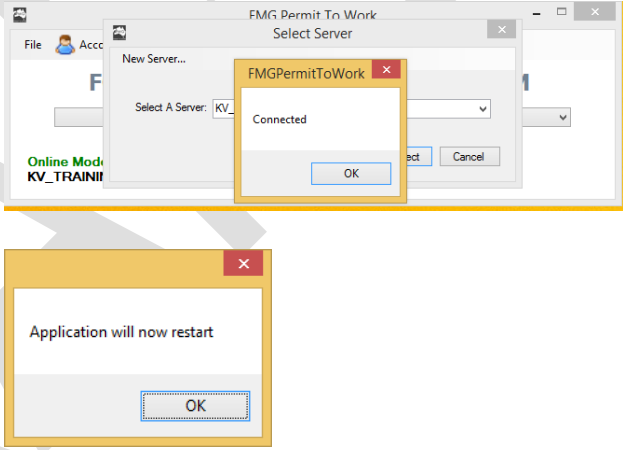
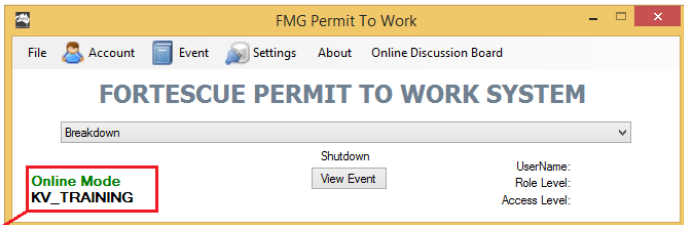
For further information please refer to Document 100-PR-SA-1003 (Permit to Work Procedure)

2. INSTALLATION

2.1 Installation Guideline

The following procedure will step you through the installation process.

Instruction	
<p>1 Install all the pre-requisites files located in:</p> <p>J:\Cong Nguyen\PermitToWorkDatabase\Prerequisites Files</p> <p>Once all files have been installed, restart the computer and proceed to the next step</p>	
<p>2 Install FMGPermitToWork Application</p> <p>J:\Cong Nguyen\PermitToWorkDatabase\FMGPermitToWork</p> <p>Once the application is installed, proceed to the next step</p>	
<p>3 Run FMGPermitToWork from your Desktop</p>	
<p>4 When FMGPermitToWork initialises for the first time, the following error dialog will appears. Click OK to acknowledge.</p>	

Instruction	
5 Select Settings > Connect to SQL	
6 A new dialog will appear. Select a Server then click Connect to continue	
7 The Application will self-restart	
8 The Application is now connected to KV_TRAINING database	 <p data-bbox="279 1637 400 1659">Server Name</p>

END OF PROCEDURE

3. SOFTWARE LAYOUT

3.1 Software layout

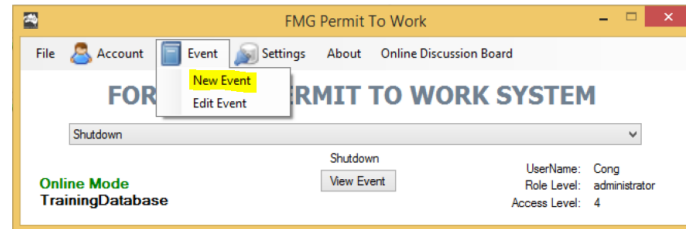
FMGPermitToWork consists of 3 types of working events: Breakdown, Shutdown and Templates. Below are the main differences:

	Breakdown Event	Shutdown Event	Templates
Isolation Statements	No lockbox numbering restriction. Different Isolation Statements can be allocate to the same Lock Box	Each Statement has a unique Lock Box	Lock Boxes are not required
SIR	Not applicable in this mode	SIR are generated from Work Packs TSIR Isolation Points are referenced to Isolation Statements' Lockbox	Work Packs not required. Isolation Points don't have Lock Box Number
Permit to Work	Work Permits are generated from Isolation Statement Work Orders are not required	Work Permits are generated from TSIR	N/A
Other Features	Outlook Integration	Shutdown Planning Tools	N/A

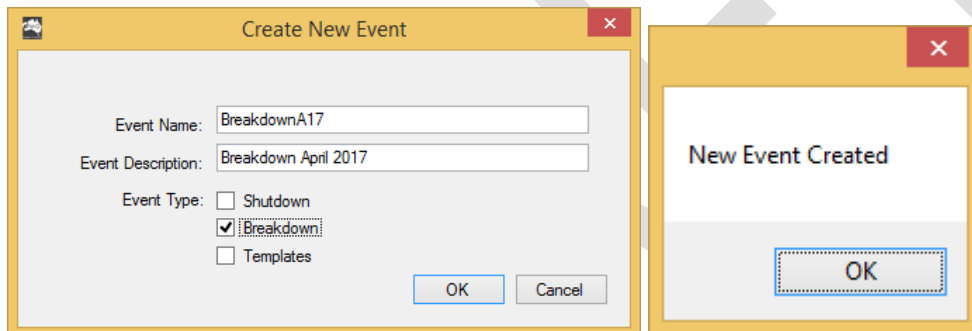
4. BREAKDOWN EVENT

4.1 Create a new Breakdown Event

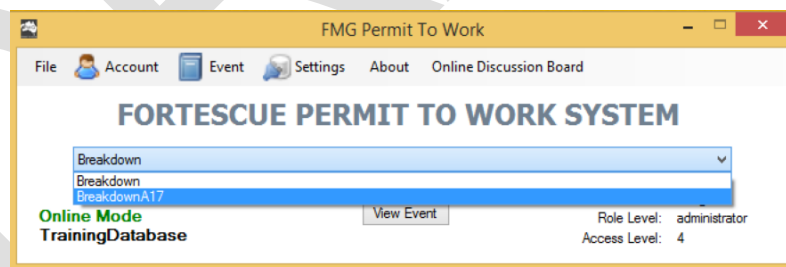
1. From the Main Screen. Login in with your credentials
2. Click on **Event > New Event** to create a new Event



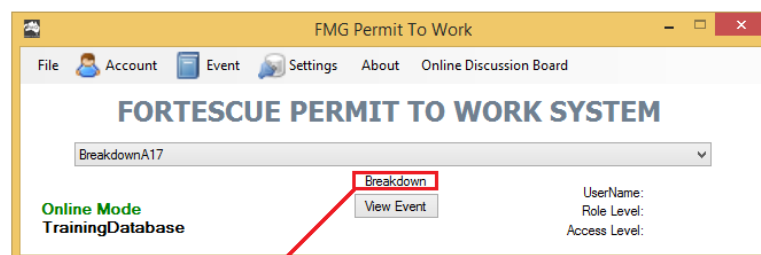
3. Type in the Event Name, its Description and select an Event Type. Click **OK** to proceed.



4. From the Main Screen, Select **“BreakdownA17”** Event



5. Click **View Event** to view the event details

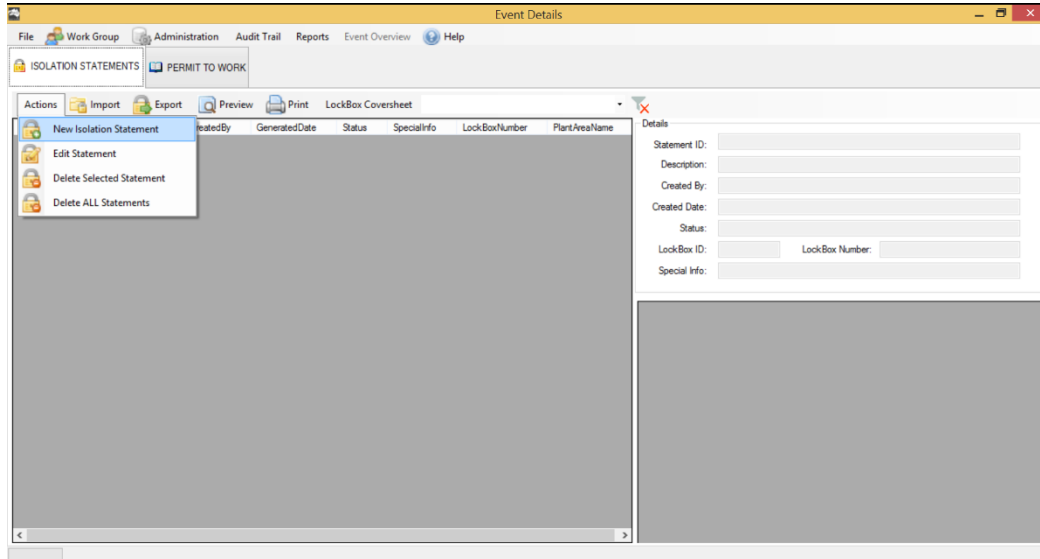


Event Type

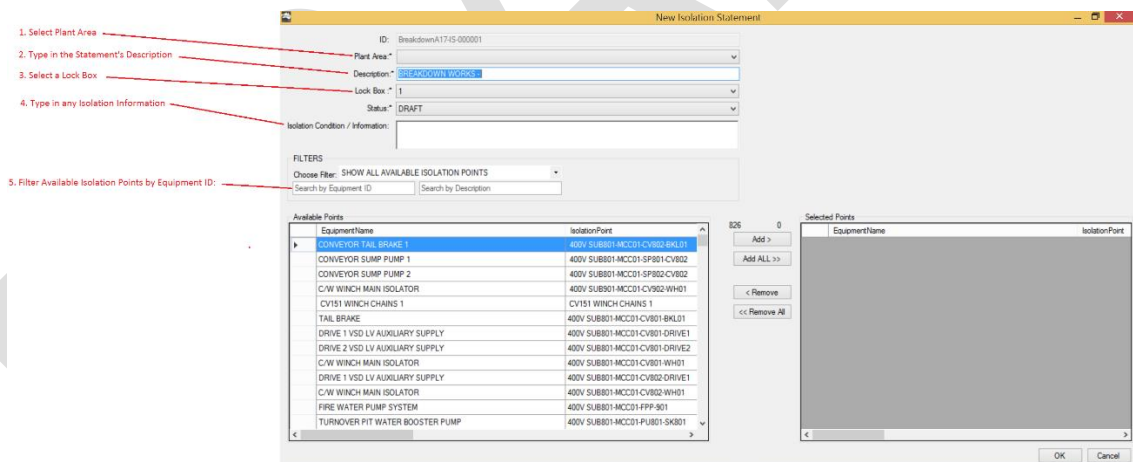
4.2 Create New Isolation Statement

1. From the **Event Details** Screen.

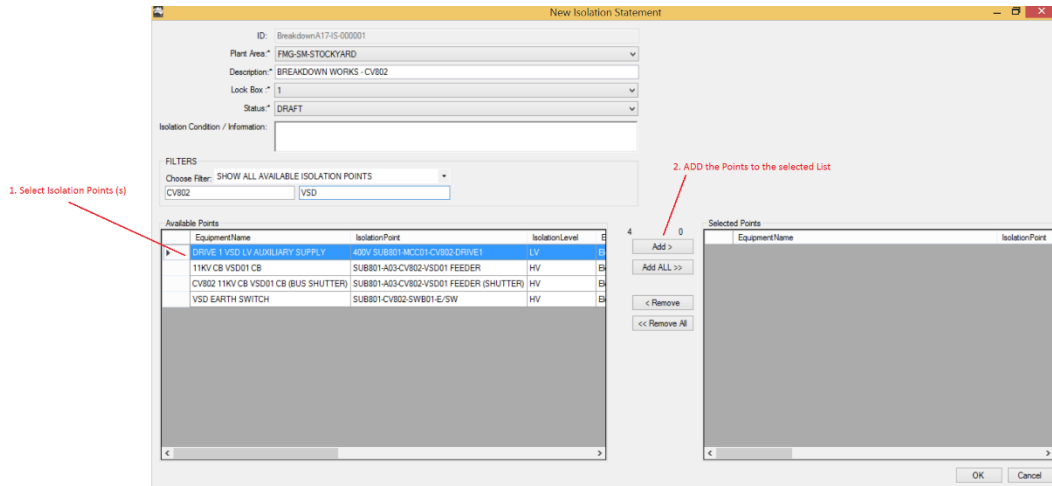
Select **ISOLATION STATEMENTS > Actions > New Isolation Statement**



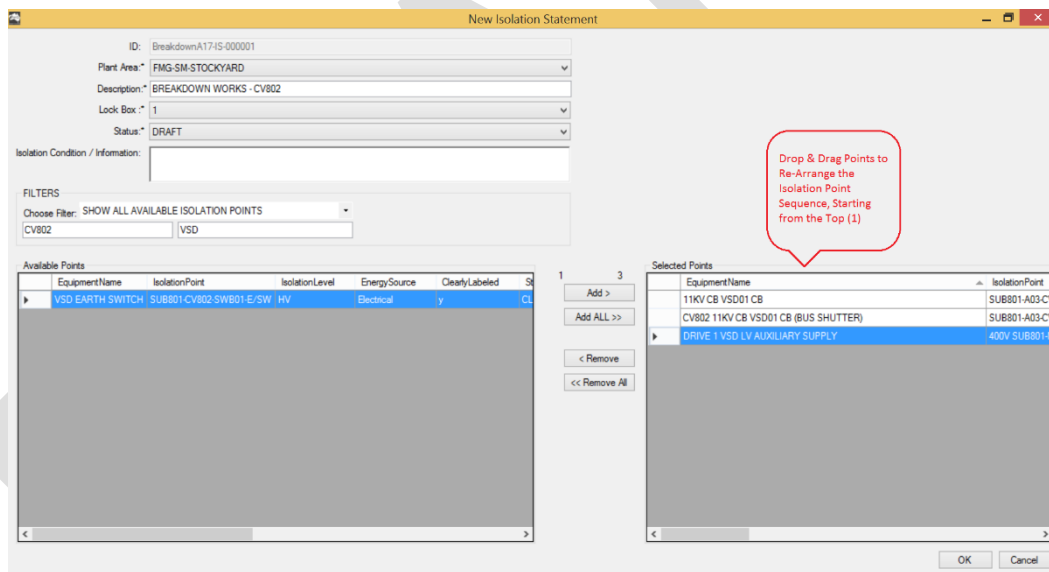
2. A new form will appear. Fill in all the required Fields:



3. Filter the Isolation Points by Equipment ID or Description. Multiple points can be added to the list at the same time:

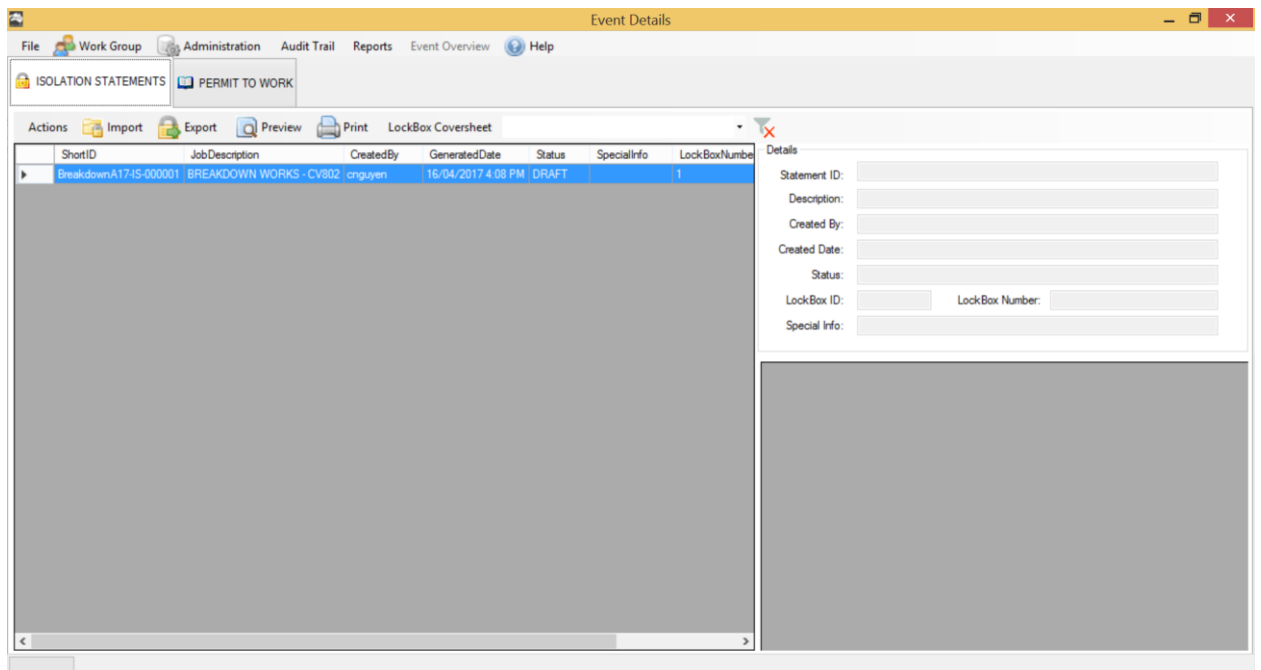


4. Sort the Isolation Points by clicking on header, or drop and drag to a specific position in the list. The Isolation Sequence appears on the statement starts from top to bottom (1,2,3...)



5. Click **OK** to Create this statement

6. The new statement is now listed in the **Event Details** page. Double click on the item to Preview



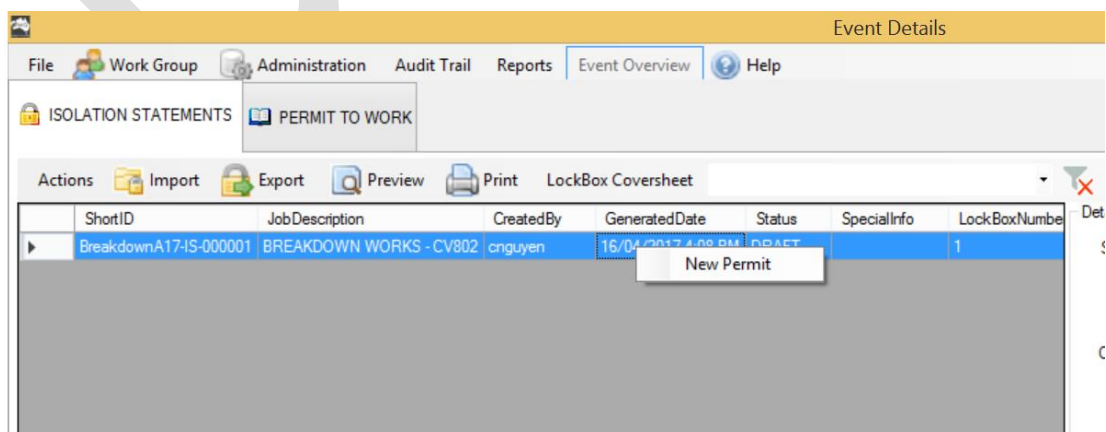
7. To Edit the statement. Highlight the item on the list, Select **Actions > Edit Statement**

End of Procedure

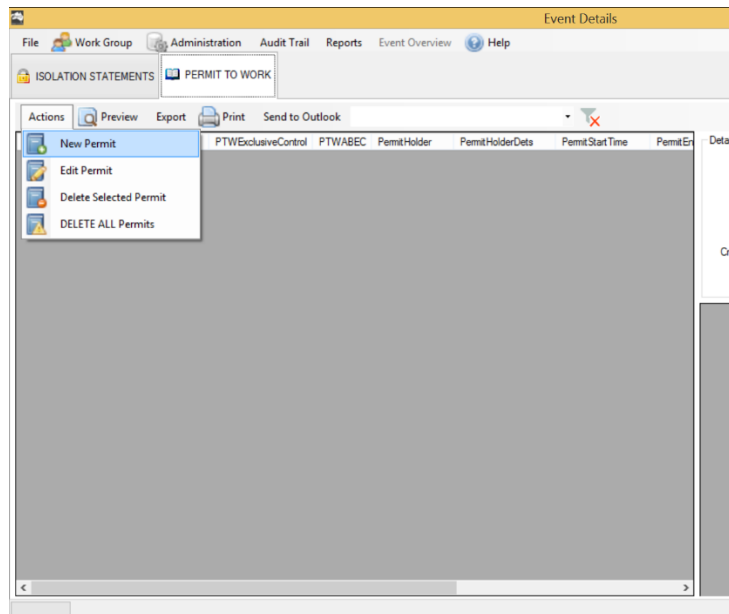
4.3 Creating a Permit To Work

Permit to Work Statements may be created in several ways:

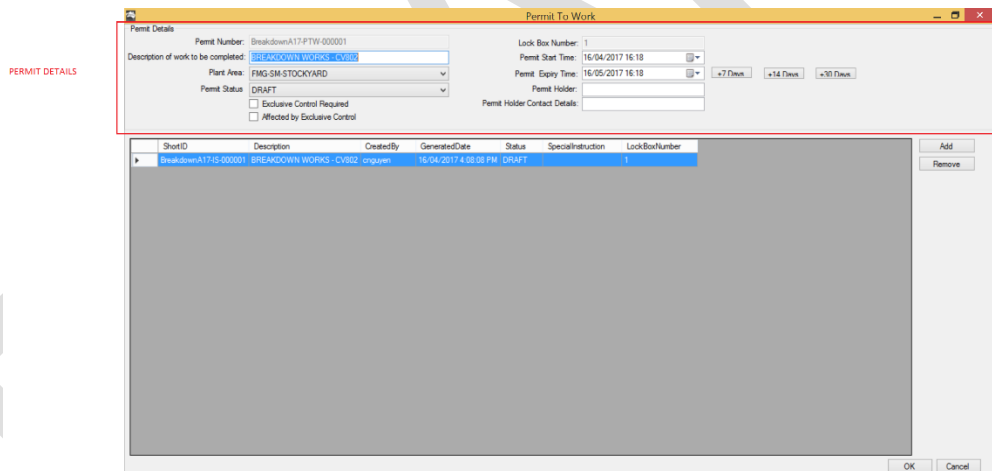
1. On the ISOLATION STATEMENT list
 - a. Select an isolation Statement
 - b. **Right-click > New Permit**



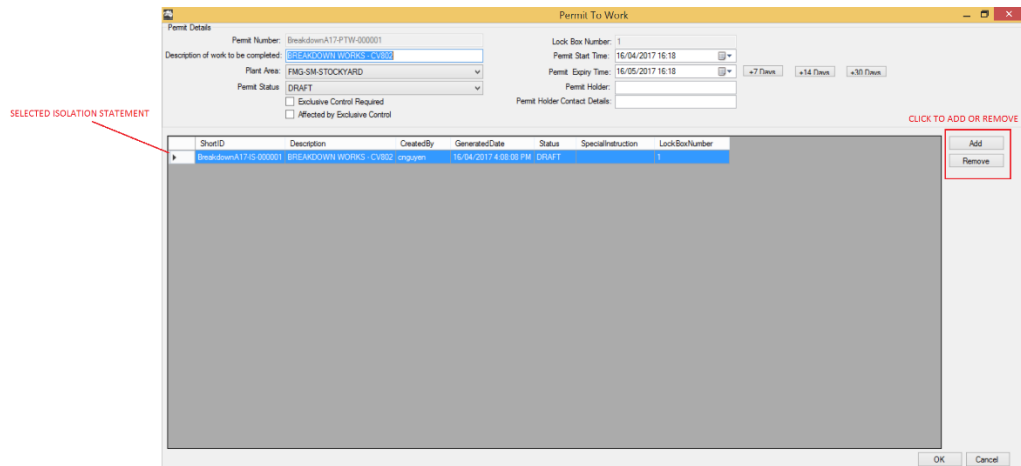
2. Or PERMIT TO WORK > Actions > New Permit



3. Fill in the Permit Details section, where applicable:

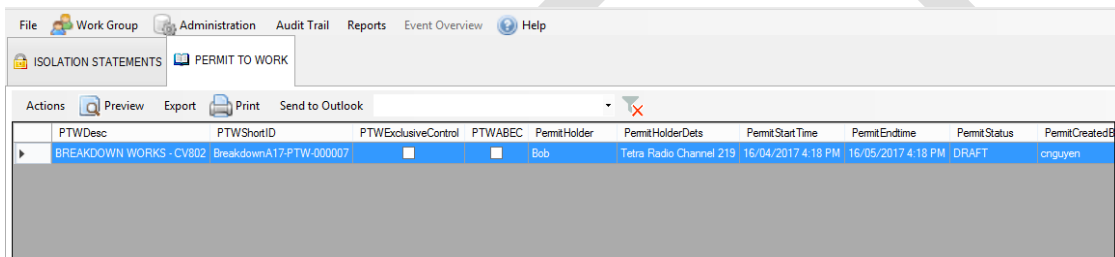


4. Add or Remove the Isolation Statement associate with this Permit:



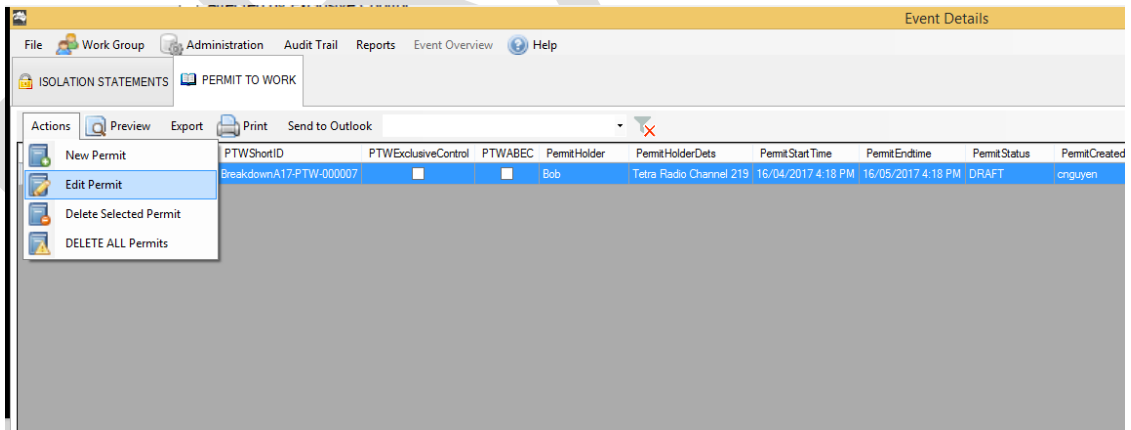
5. Click OK to proceed to the next step

6. New Permit is now listed on the **Event Details** Page > **PERMIT TO WORK**:



7. Double click the permit to preview

8. Permit can be altered by selecting **PERMIT TO WORK** > **Actions** > **Edit Permit**



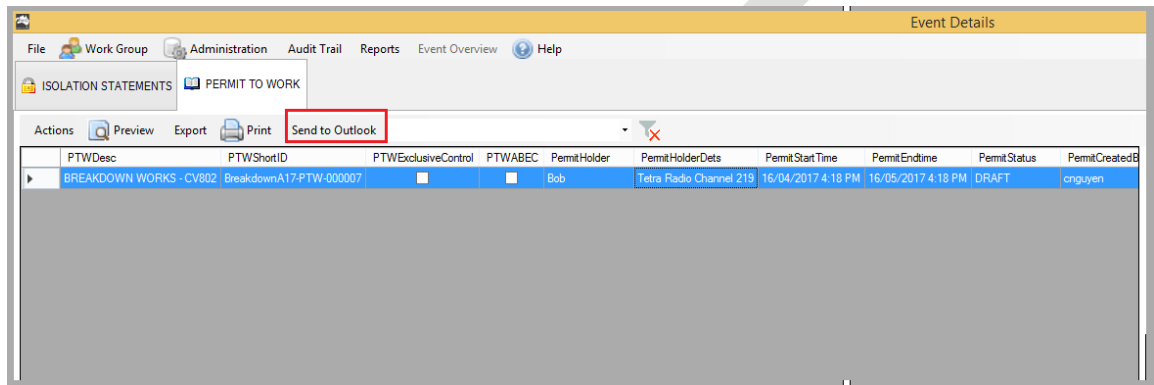
End of Procedure

4.4 Send Permit to Outlook

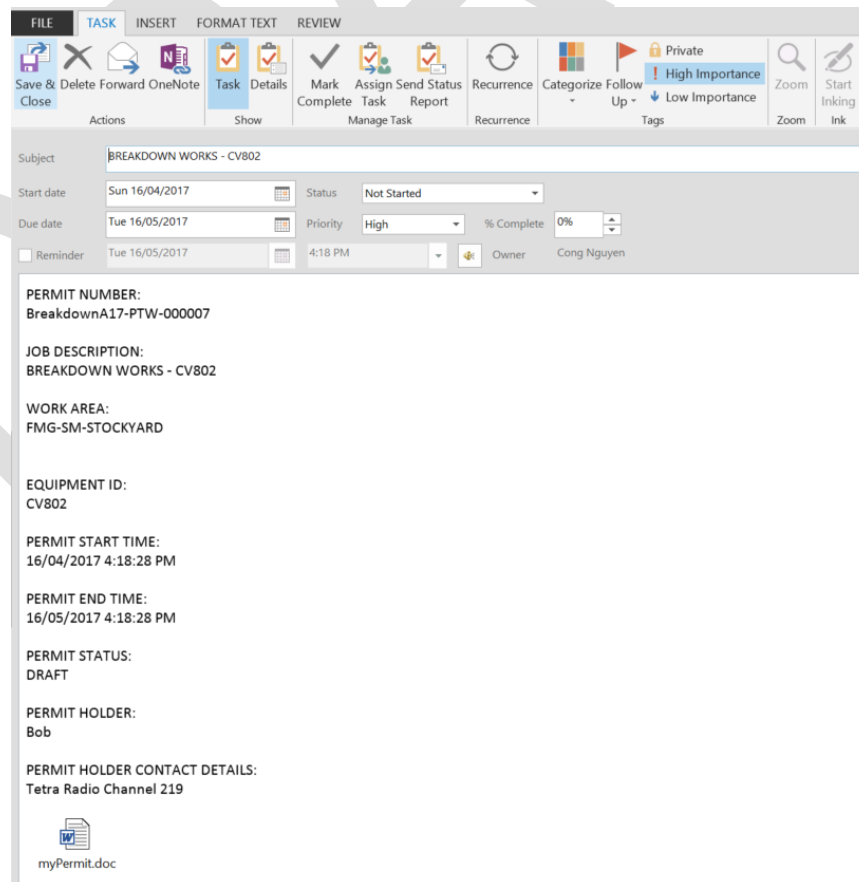
When isolation statement and Work Permits are generated, Permit Coordinator can choose to issue a copy of the permit to Central Control Room Operator to notify the upcoming isolations. This will ensure the plant shutdown is in a controlled and timely manner. CCR can then set up to quickly bring the plant back online once requested work is complete:

1. From Event Details Page, select a permit on the list then

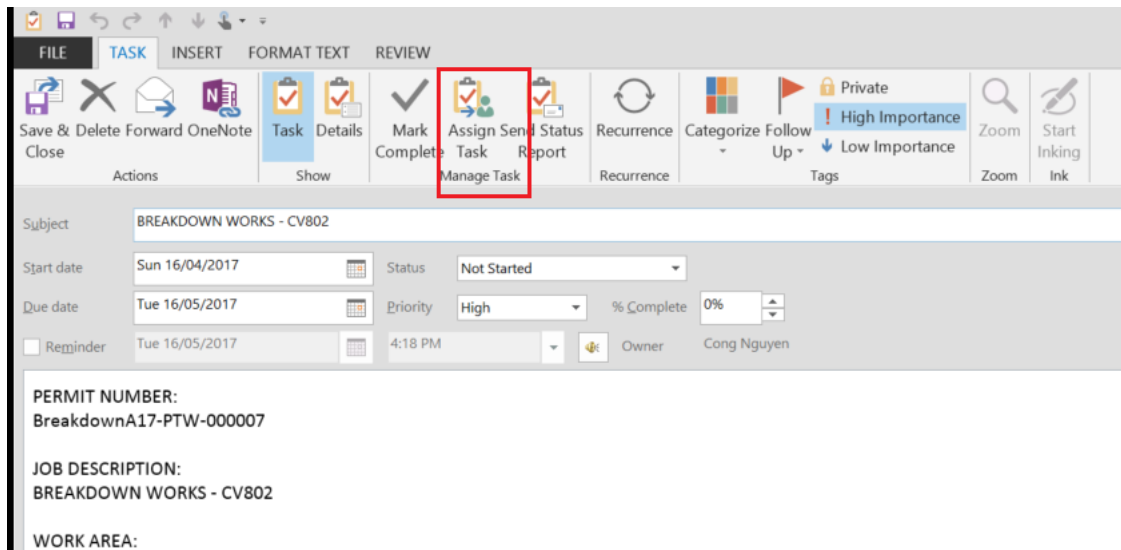
PERMIT TO WORK > SEND TO OUTLOOK



2. A new Task will be generated on your Outlook, along with the isolation details:



3. On the ribbon, Select **Assign Task**



4. Type in the recipient's email address and click **SEND**

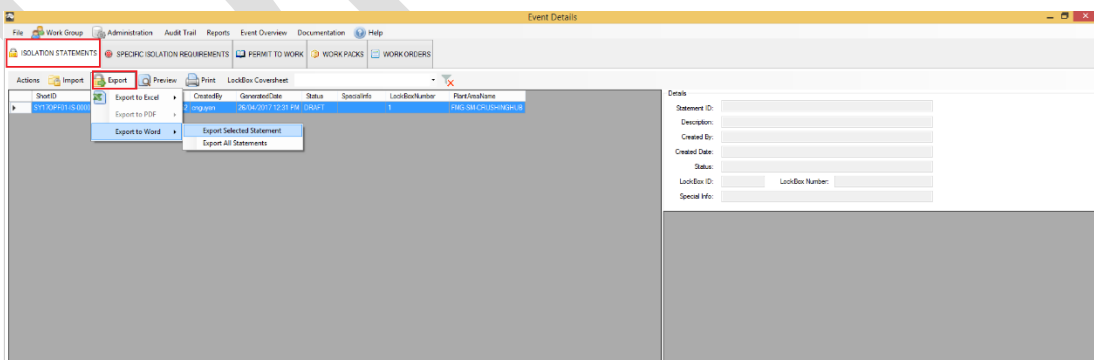
End of Procedure

4.5 Printing

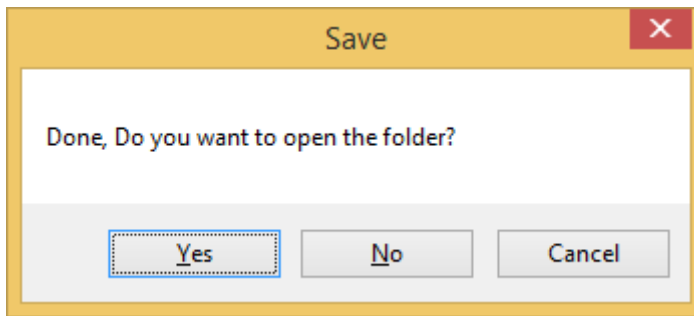
4.5.1 Print Isolation Statement

The best way to print an Isolation Statement is to export it to Microsoft Word Document format then print:

1. On the Event Details Page. Select **ISOLATION STATEMENT** tab.
2. Click on **EXPORT > Export to Word > Export Selected Statement**



3. Choose the destination folder then click on **Save** to proceed



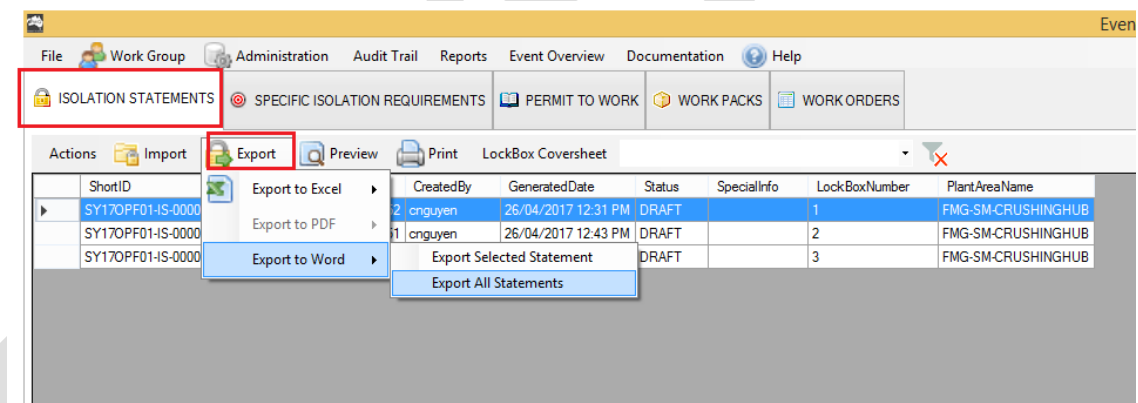
4. Click **Yes** to view the file.

End of Procedure

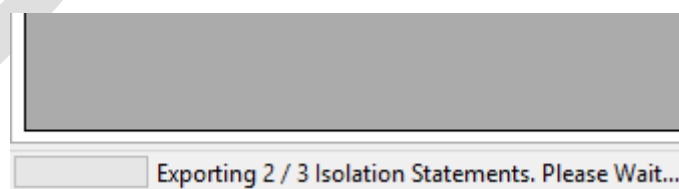
4.5.2 Print Multiple Statements

To print multiple isolation statements

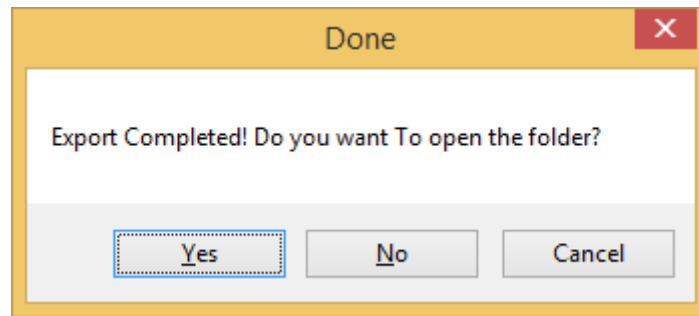
1. Select **ISOLATION STATEMENT** tab
2. Click on **Export > Export to Word > Export All Statements**



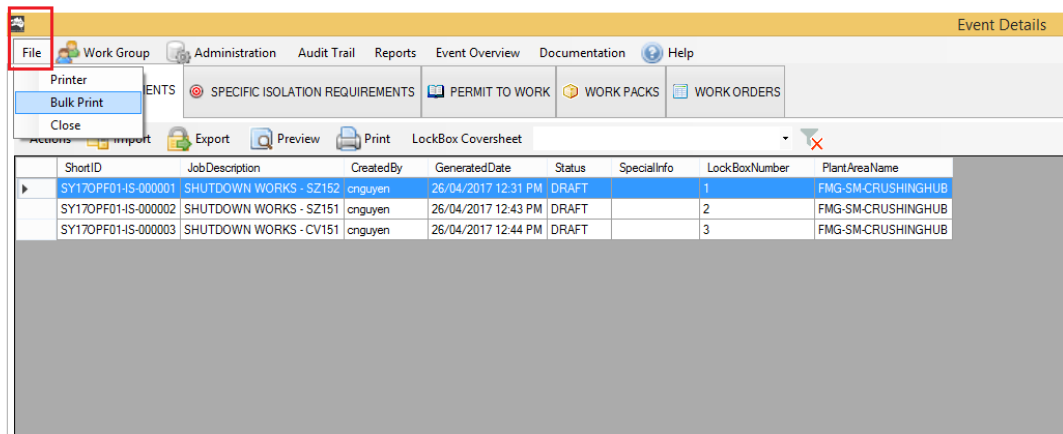
3. Navigate to the folder then click on **Save**. **Note:** this progress will take sometime to generate all statement. The status is displayed on the left bottom corner of the screen:



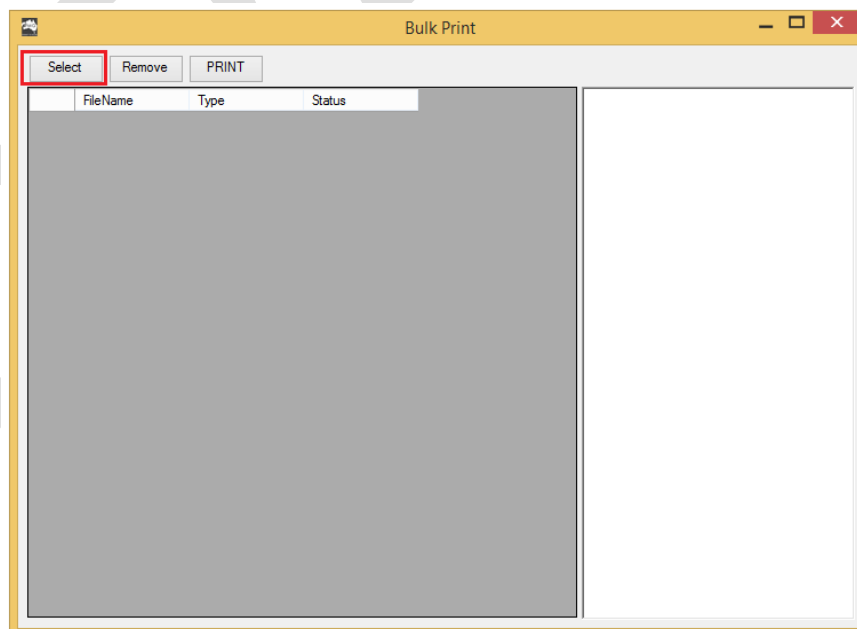
4. Once export is completed. Click **Yes** to view your files or **No** to close.



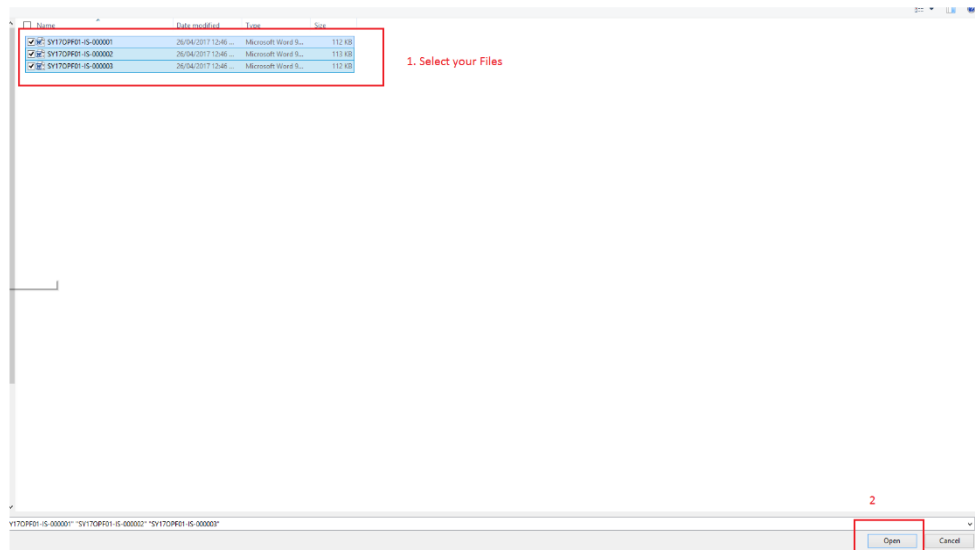
5. To Print Multiple statement. Select **File > Bulk Print**



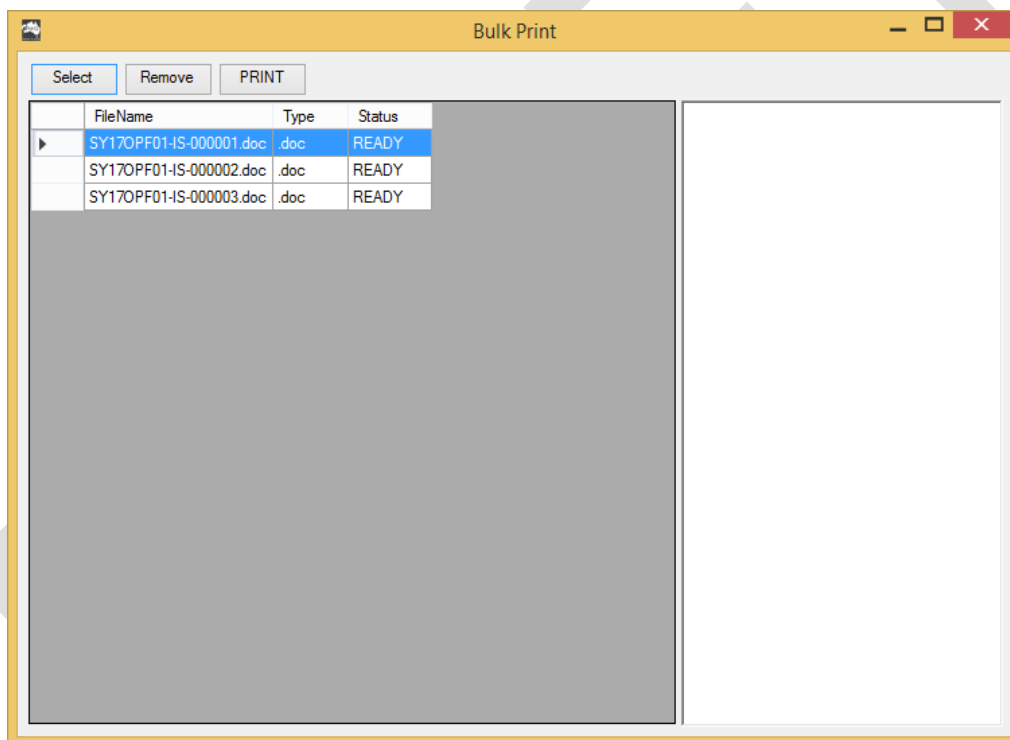
6. A new dialog will popup. Click on **Select**



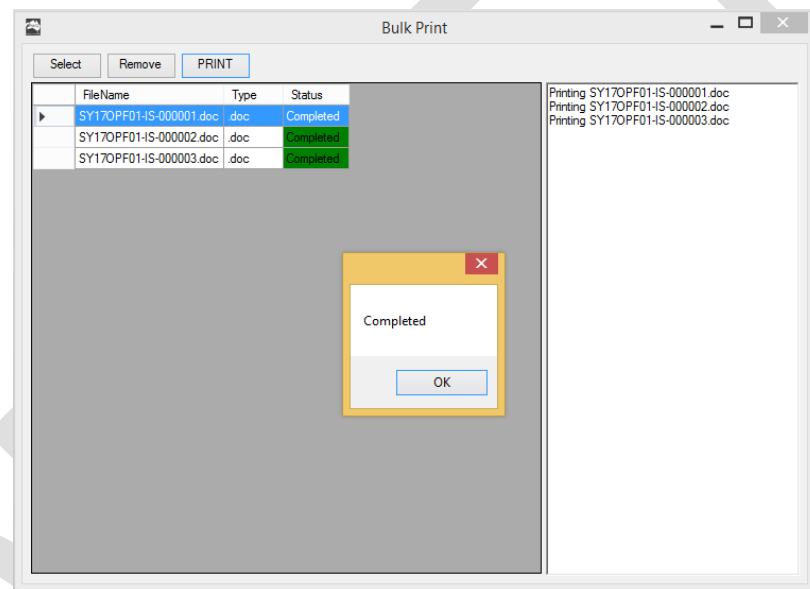
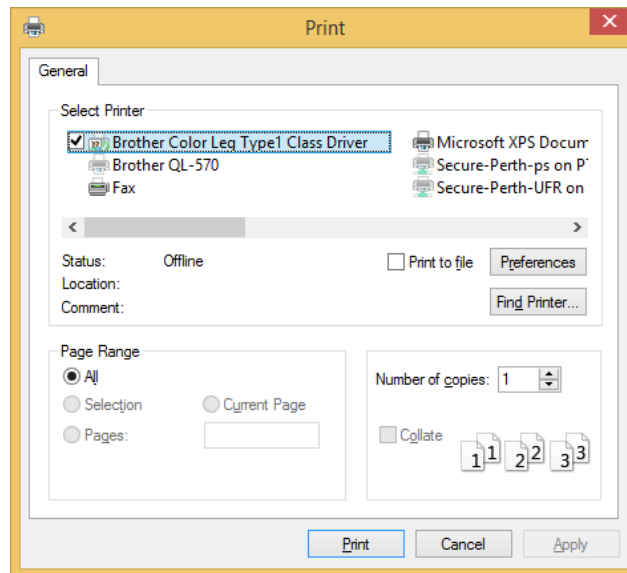
7. Select the files you wish to print. Then click on **Open** to proceed



8. Your selected files are now added to the list. Click **Print** to proceed



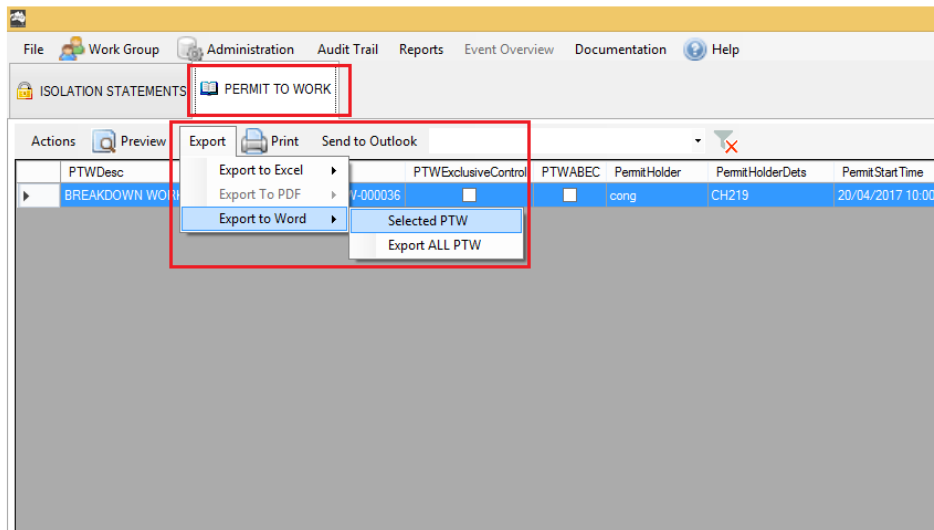
9. Select a printer then **Print**



End of Procedure

4.5.3 Print Permit To Work

1. From the **Event Details** page. Click on **PERMIT TO WORK** tab > **Export** > **Selected PTW**



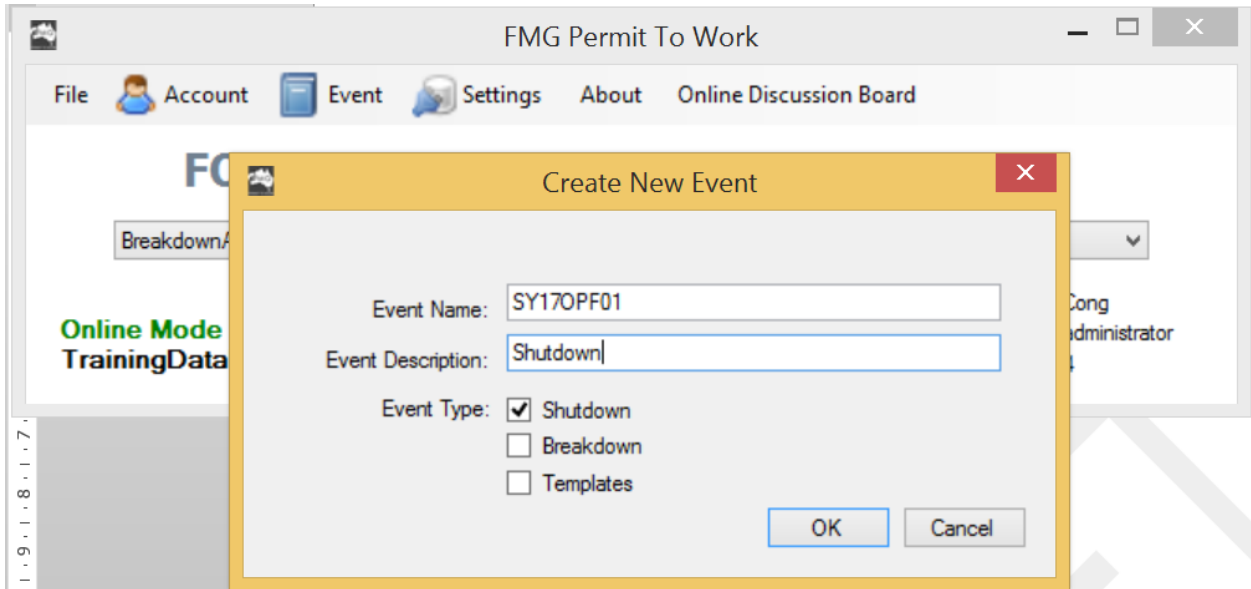
2. Repeat the previous steps to export and print documents.

End of Procedure

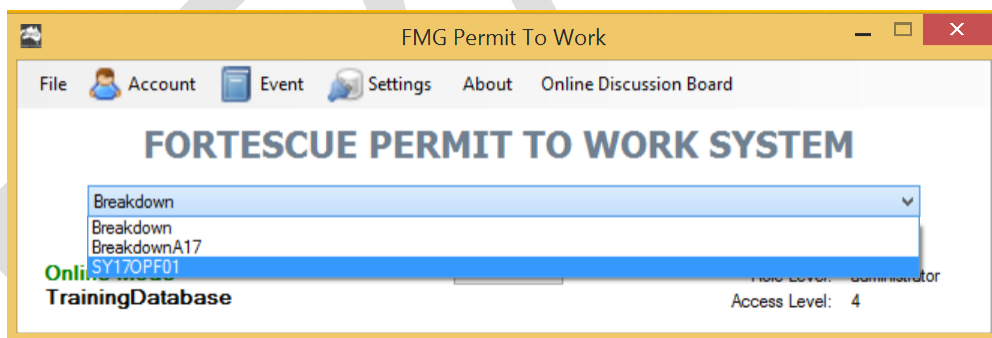
5. SHUTDOWN EVENT

5.1 Create Shutdown Event

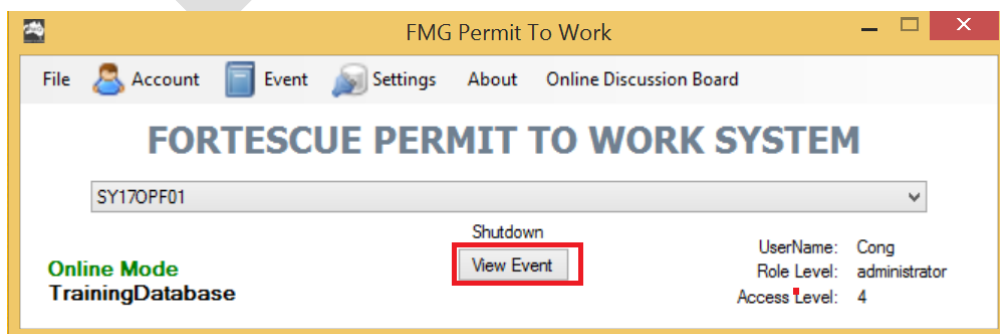
1. From the Main Login Page. Click **Event > New Event**. Enter the name of the event, Event description and Select **Shutdown**



2. From the **Main Page** select this event from the drop down list



3. Click **View Event** to continue

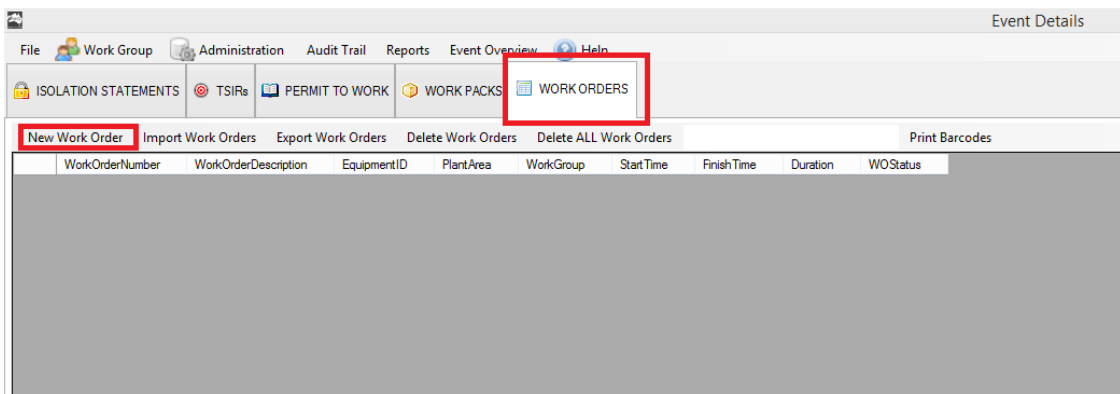


End of Procedure

5.2 WORK ORDERS

5.2.1 Create New Work Order

1. From the **Event Details** Page. Click on the **WORK ORDERS** tab > **New Work Order**



2. Enter the Work Order Details. Click **OK** to proceed

The screenshot shows a 'New Work Order' dialog box. The fields are as follows:

- Plant Area: STOCKYARD
- Asset ID: RC901
- Work Order Number: 200834574
- Work Order Description: Service Variable Speed Drive CV901-VSD01
- Work Group: ABB
- Start Time: 17/04/2017 08:22
- Finish Time: 18/04/2017 08:22

Buttons: OK, Cancel

3. Work Orders is now appear on the Work Order list:

The screenshot shows the 'Event Details' page with the 'WORK ORDERS' tab selected. The table now contains one row:

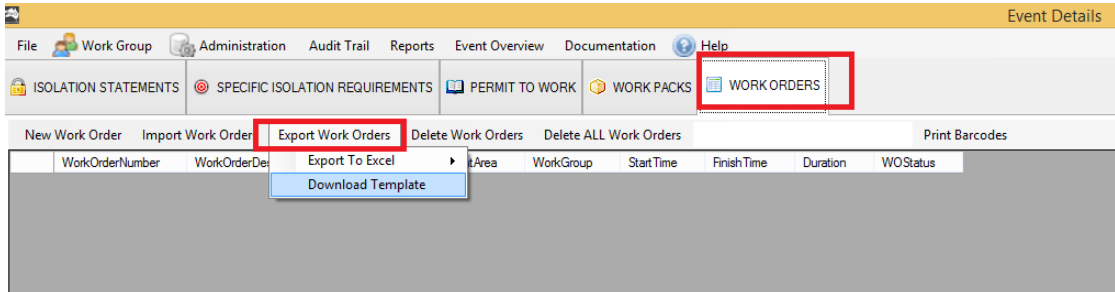
WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartTime	FinishTime	Duration	WOStatus
200834574	Service Variable Speed Drive CV901-VSD01	RC901	STOCKYARD	ABB	17/04/2017 8:22 AM	18/04/2017 8:22 AM	24	OPEN

End of Procedure

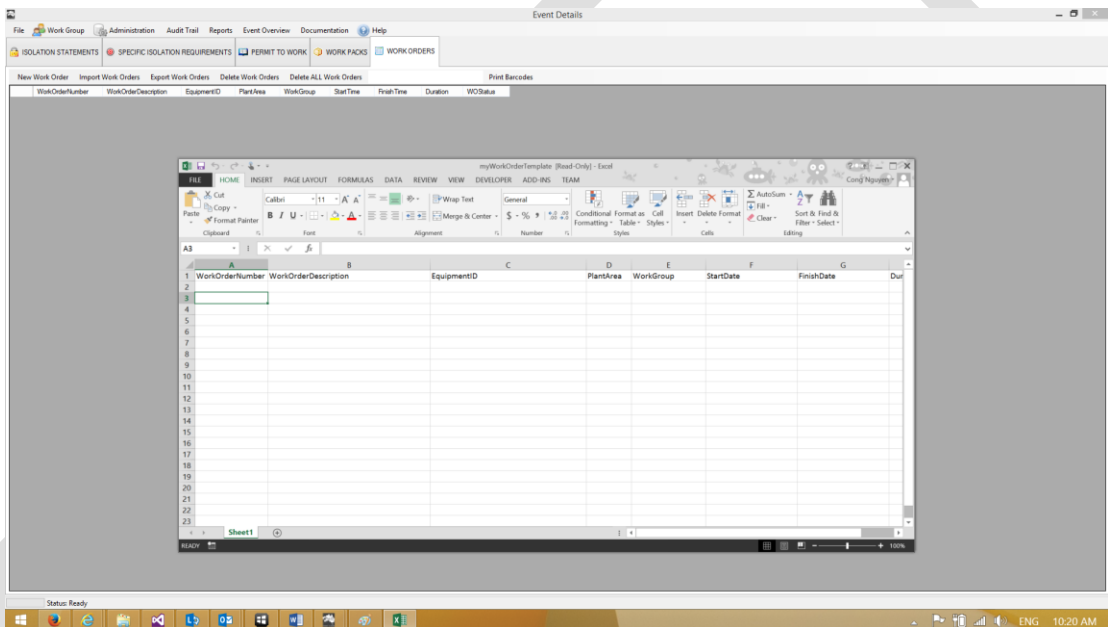
5.2.2 Import Work Orders from Excel Spreadsheet

Work Orders can be imported into the database in several ways:

1. Select **WORK ORDERS > Export Work Orders > Download Template**



2. A new Excel file will pop up.



3. Fill in the data as per the template.

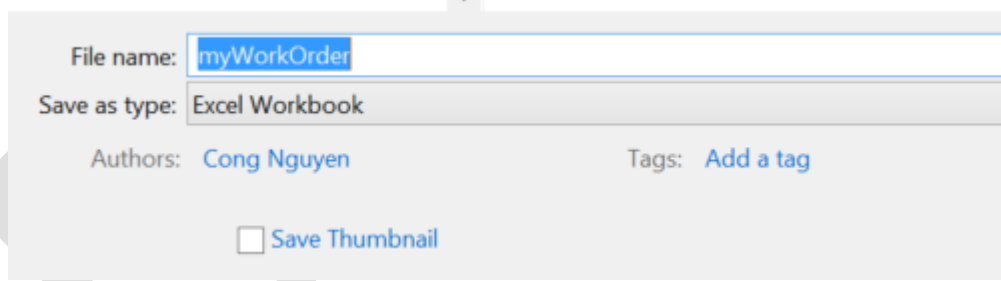
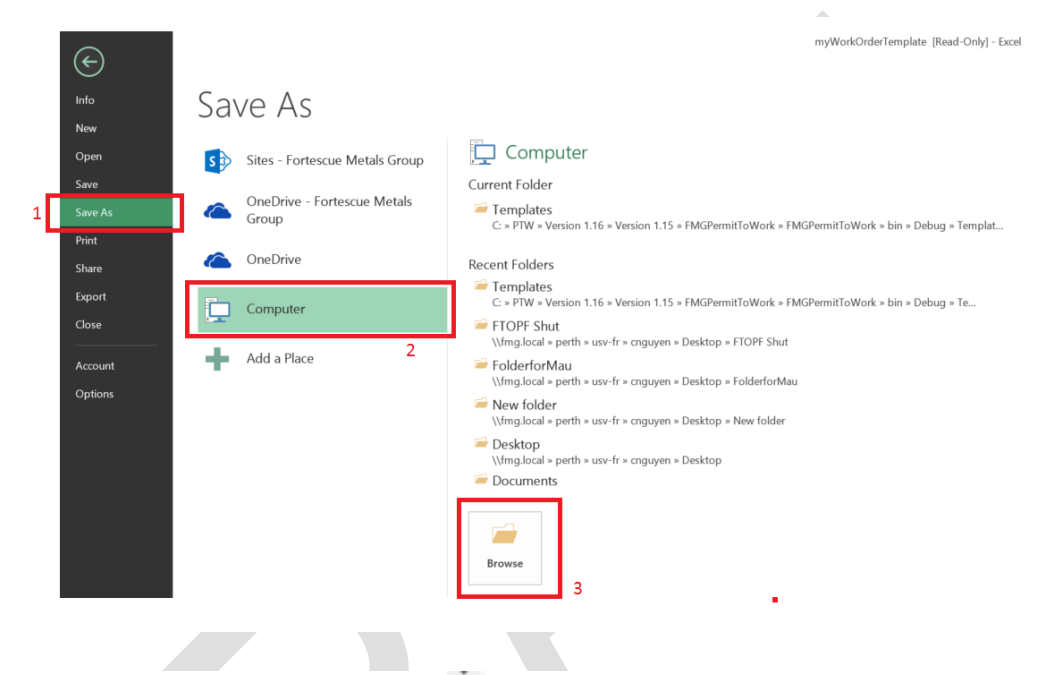
The screenshot shows the Excel spreadsheet filled with data. The data is as follows:

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartDate	FinishDate	Duration
100492243	BF273-CH290 Install Side Impact Plates	BF273-CH290 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PILBARA ACCESS T1	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2
100516905	BM151-Install Rail Inserts	BM151 Rom Bin	PRIMARY CRUSHING AREA	TAS ROPE ACCESS T1	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1
100538576	RMU14 12Monthly ISI Cable way Inspection	33KV 630A Incomer Isolator from RMU15/16	GENERAL FIRETAL AREA	NPI HV T1	19/05/2017 8:00 AM	19/05/2017 10:00 AM	2
100549943	CRC363 Install Drain Pipe Protection	CRC363 Tertiary Crusher MP1250	SECONDARY & TERTIARY CRUSHING AREA	PILBARA ACCESS T3	19/05/2017 8:00 PM	20/05/2017 2:00 AM	6
10052681	BF363-Shuttle Drive Upgrade	BF363 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1
100552740	BF364-Shuttle Drive Upgrade	BF364 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 8:00 AM	7
100558894	BF362-Shuttle Drive Upgrade	BF362 Belt Feeder Drive 2	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 7:00 AM	19/05/2017 7:00 AM	0
100568365	SZ151-CH154 Discharge Chute-Replace Line	SZ151-CH154 Pri Sizer Discharge Chute	PRIMARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 7:00 PM	8
100576050	CRC363-CH378-Install Crusher Isolation G	CRC363-CH378 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2
100576052	CRC364-CH379-Install Crusher Isolation G	CRC364-CH379 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T3	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2
100592945	CRC363 Replace Lub Pump 2	CRC363-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 10:30 AM	19/05/2017 11:30 PM	13

4. Save the Excel spreadsheet to your computer. We will import this spreadsheet in the next steps:

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartDate	Finis
100492243	BF273-CH290 Install Side Impact Plates	BF273-CH290 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PILBARA ACCESS T1	15/05/2017 11:00 AM	15/05/2017 11:00 AM
100516905	BN151-Install Rail Inserts	BN151 Rom Bin	PRIMARY CRUSHING AREA	TAS ROPE ACCESS T1	15/05/2017 11:00 AM	15/05/2017 11:00 AM
100538576	RMU14 12Monthly IS/Cable way Inspection	33KV 630A Incomer Isolator from RMU15/16	GENERAL FIRE/TAIL AREA	NPI HV T1	19/05/2017 8:00 AM	19/05/2017 8:00 AM
100549843	CRC363 Install Drain Pipe Protection	CRC363 Tertiary Crusher MP1250	SECONDARY & TERTIARY CRUSHING AREA	PILBARA ACCESS T3	19/05/2017 8:00 PM	20/05/2017 8:00 PM
100552681	BF363-Shuttle Drive Upgrade	BF363 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 11:00 AM
100552740	BF364-Shuttle Drive Upgrade	BF364 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 1:00 AM
100558894	BF362-Shuttle Drive Upgrade	BF362 Belt Feeder Drive 2	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 7:00 AM	19/05/2017 7:00 AM

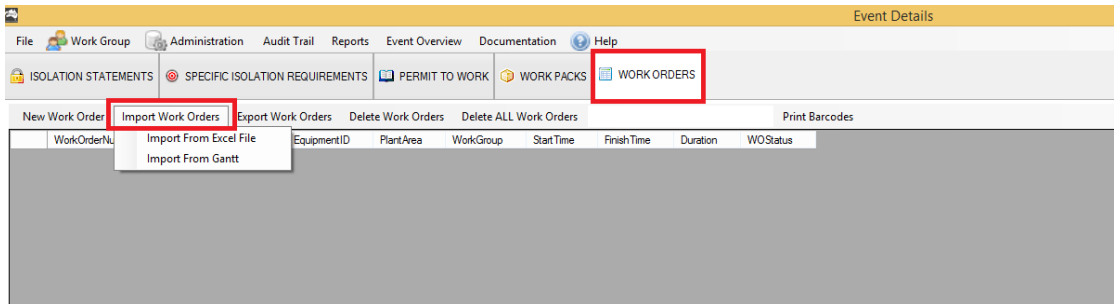
File > Save As > Computer > Browse



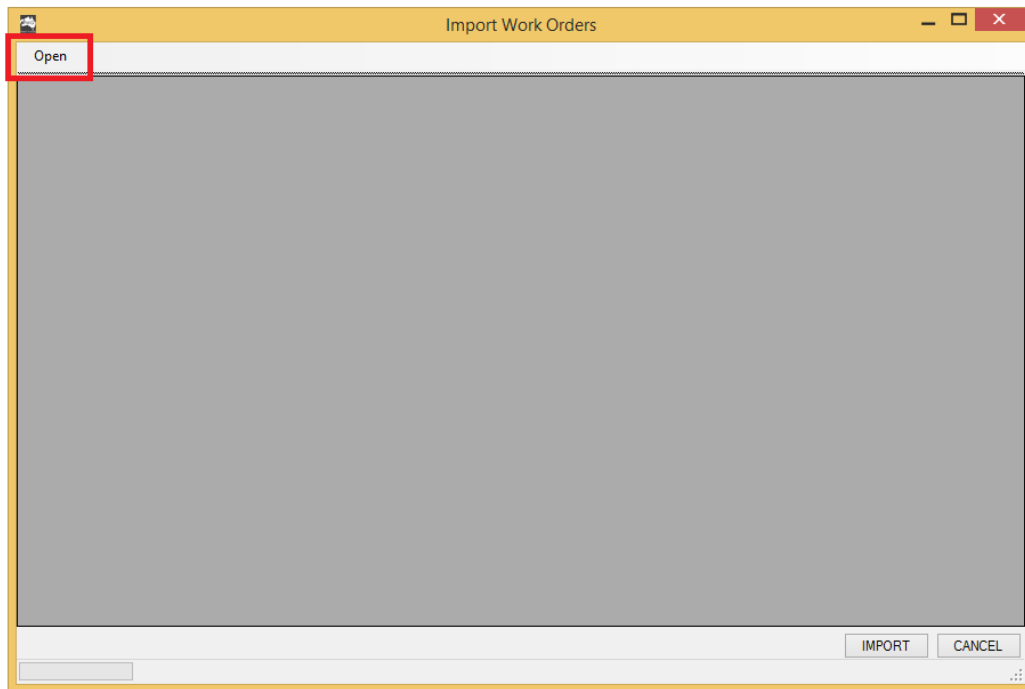
In this example, I will save this Excel Spreadsheet as “myWorkOrder” on my Desktop

5. Back to the FMGPermitToWork.

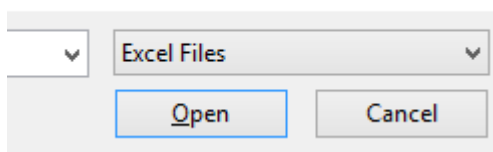
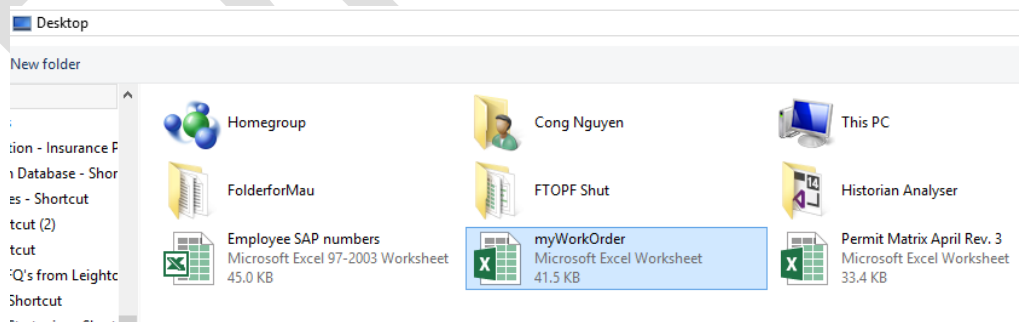
Select **WORK ORDERS > IMPORT WORK ORDERS > Import From Excel File**



6. A new window will pop up. Click on **Open**



Select the Excel Spreadsheet that you saved in the previous step:



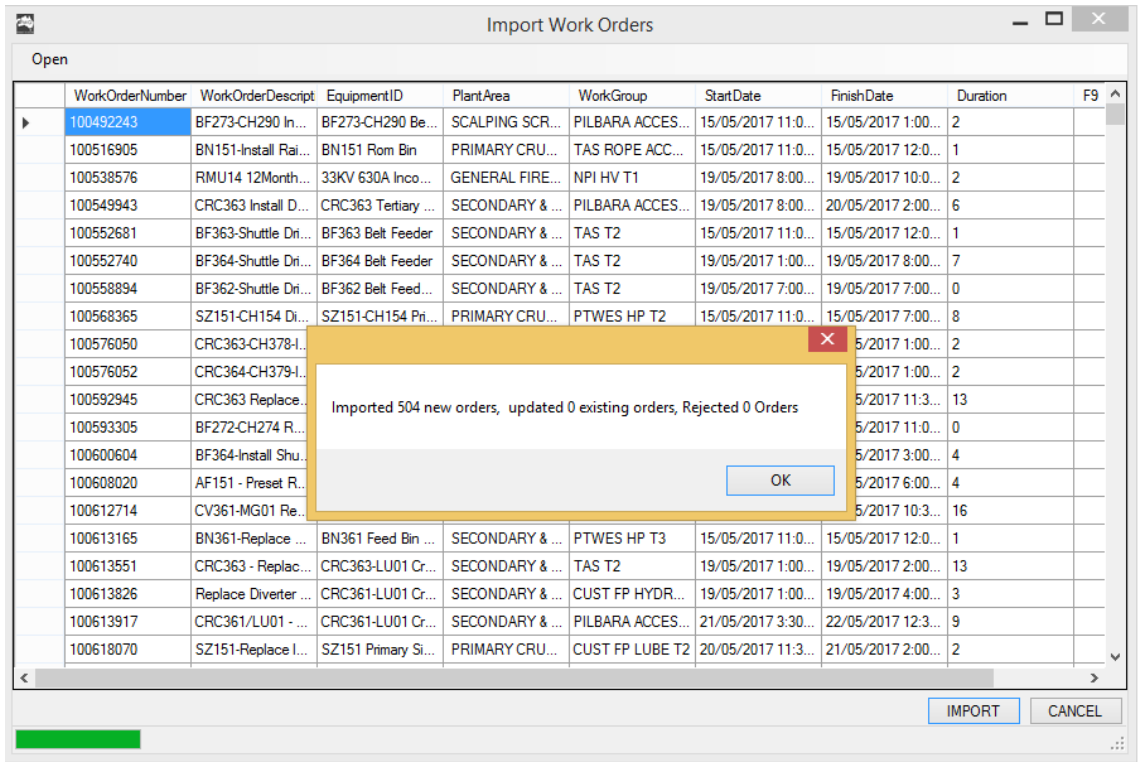
7. Now your pop up window will display the preview data:

	WorkOrderNumber	WorkOrderDescript	EquipmentID	PlantArea	WorkGroup	StartDate	FinishDate	Duration	F9
▶	100492243	BF273-CH290 In...	BF273-CH290 Be...	SCALPING SCR...	PILBARA ACCES...	15/05/2017 11:0...	15/05/2017 1:00...	2	
	100516905	BN151-Install Rai...	BN151 Rom Bin	PRIMARY CRU...	TAS ROPE ACC...	15/05/2017 11:0...	15/05/2017 12:0...	1	
	100538576	RMU14 12Month...	33KV 630A Inco...	GENERAL FIRE...	NPI HV T1	19/05/2017 8:00...	19/05/2017 10:0...	2	
	100549943	CRC363 Install D...	CRC363 Tertiary ...	SECONDARY & ...	PILBARA ACCES...	19/05/2017 8:00...	20/05/2017 2:00...	6	
	100552681	BF363-Shuttle Dri...	BF363 Belt Feeder	SECONDARY & ...	TAS T2	15/05/2017 11:0...	15/05/2017 12:0...	1	
	100552740	BF364-Shuttle Dri...	BF364 Belt Feeder	SECONDARY & ...	TAS T2	19/05/2017 1:00...	19/05/2017 8:00...	7	
	100558894	BF362-Shuttle Dri...	BF362 Belt Feed...	SECONDARY & ...	TAS T2	19/05/2017 7:00...	19/05/2017 7:00...	0	
	100568365	SZ151-CH154 Di...	SZ151-CH154 Pri...	PRIMARY CRU...	PTWES HP T2	15/05/2017 11:0...	15/05/2017 7:00...	8	
	100576050	CRC363-CH378-I...	CRC363-CH378 ...	SECONDARY & ...	PTWES HP T2	15/05/2017 11:0...	15/05/2017 1:00...	2	
	100576052	CRC364-CH379-I...	CRC364-CH379 ...	SECONDARY & ...	PTWES HP T3	15/05/2017 11:0...	15/05/2017 1:00...	2	
	100592945	CRC363 Replace...	CRC363-LU01 Cr...	SECONDARY & ...	TAS T2	19/05/2017 10:3...	19/05/2017 11:3...	13	
	100593305	BF272-CH274 R...	BF272-CH274 Be...	SCALPING SCR...	PTWES HP T1	15/05/2017 11:0...	15/05/2017 11:0...	0	
	100600604	BF364-Install Shu...	BF364 Feeder El...	SECONDARY & ...	TAS T2	15/05/2017 11:0...	15/05/2017 3:00...	4	
	100608020	AF151 - Preset R...	AF151-HY01 Fee...	PRIMARY CRU...	CUST FP HYDR...	21/05/2017 2:00...	21/05/2017 6:00...	4	
	100612714	CV361-MG01 Re...	CV361-MG01 Co...	SECONDARY & ...	TAS T2	19/05/2017 6:30...	19/05/2017 10:3...	16	
	100613165	BN361-Replace ...	BN361 Feed Bin ...	SECONDARY & ...	PTWES HP T3	15/05/2017 11:0...	15/05/2017 12:0...	1	
	100613551	CRC363 - Replac...	CRC363-LU01 Cr...	SECONDARY & ...	TAS T2	19/05/2017 1:00...	19/05/2017 2:00...	13	
	100613826	Replace Diverter ...	CRC361-LU01 Cr...	SECONDARY & ...	CUST FP HYDR...	19/05/2017 1:00...	19/05/2017 4:00...	3	
	100613917	CRC361/LU01 - ...	CRC361-LU01 Cr...	SECONDARY & ...	PILBARA ACCES...	21/05/2017 3:30...	22/05/2017 12:3...	9	
	100618070	SZ151-Replace I...	SZ151 Primary Si...	PRIMARY CRU...	CUST FP LUBE T2	20/05/2017 11:3...	21/05/2017 2:00...	2	

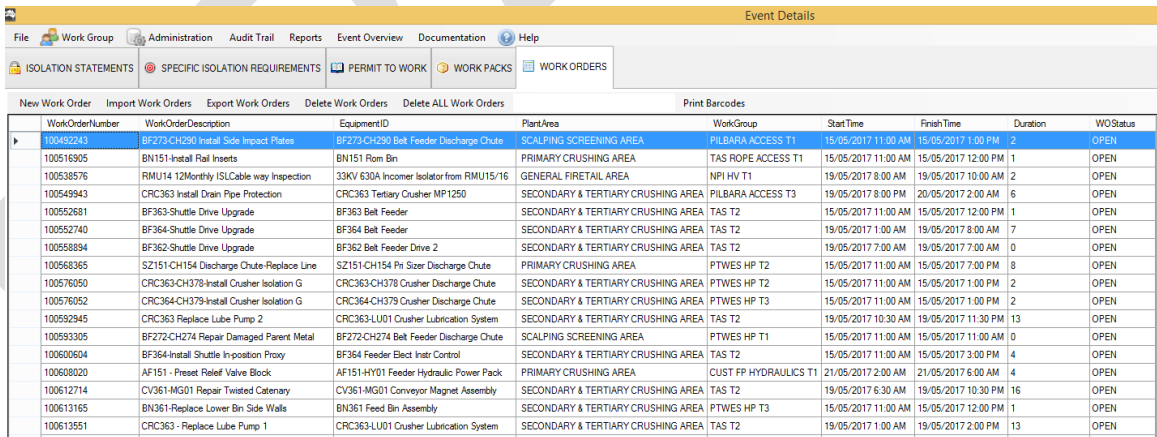
8. Click **IMPORT**

	WorkOrderNumber	WorkOrderDescript	EquipmentID	PlantArea	WorkGroup	StartDate	FinishDate	Duration	F9
▶	100492243	BF273-CH290 In...	BF273-CH290 Be...	SCALPING SCR...	PILBARA ACCES...	15/05/2017 11:0...	15/05/2017 1:00...	2	
	100516905	BN151-Install Rai...	BN151 Rom Bin	PRIMARY CRU...	TAS ROPE ACC...	15/05/2017 11:0...	15/05/2017 12:0...	1	
	100538576	RMU14 12Month...	33KV 630A Inco...	GENERAL FIRE...	NPI HV T1	19/05/2017 8:00...	19/05/2017 10:0...	2	
	100549943	CRC363 Install D...	CRC363 Tertiary ...	SECONDARY & ...	PILBARA ACCES...	19/05/2017 8:00...	20/05/2017 2:00...	6	
	100552681	BF363-Shuttle Dri...	BF363 Belt Feeder	SECONDARY & ...	TAS T2	15/05/2017 11:0...	15/05/2017 12:0...	1	
	100552740	BF364-Shuttle Dri...	BF364 Belt Feeder	SECONDARY & ...	TAS T2	19/05/2017 1:00...	19/05/2017 8:00...	7	
	100558894	BF362-Shuttle Dri...	BF362 Belt Feed...	SECONDARY & ...	TAS T2	19/05/2017 7:00...	19/05/2017 7:00...	0	
	100568365	SZ151-CH154 Di...	SZ151-CH154 Pri...	PRIMARY CRU...	PTWES HP T2	15/05/2017 11:0...	15/05/2017 7:00...	8	
	100576050	CRC363-CH378-I...	CRC363-CH378 ...	SECONDARY & ...	PTWES HP T2	15/05/2017 11:0...	15/05/2017 1:00...	2	
	100576052	CRC364-CH379-I...	CRC364-CH379 ...	SECONDARY & ...	PTWES HP T3	15/05/2017 11:0...	15/05/2017 1:00...	2	
	100592945	CRC363 Replace...	CRC363-LU01 Cr...	SECONDARY & ...	TAS T2	19/05/2017 10:3...	19/05/2017 11:3...	13	
	100593305	BF272-CH274 R...	BF272-CH274 Be...	SCALPING SCR...	PTWES HP T1	15/05/2017 11:0...	15/05/2017 11:0...	0	
	100600604	BF364-Install Shu...	BF364 Feeder El...	SECONDARY & ...	TAS T2	15/05/2017 11:0...	15/05/2017 3:00...	4	
	100608020	AF151 - Preset R...	AF151-HY01 Fee...	PRIMARY CRU...	CUST FP HYDR...	21/05/2017 2:00...	21/05/2017 6:00...	4	
	100612714	CV361-MG01 Re...	CV361-MG01 Co...	SECONDARY & ...	TAS T2	19/05/2017 6:30...	19/05/2017 10:3...	16	
	100613165	BN361-Replace ...	BN361 Feed Bin ...	SECONDARY & ...	PTWES HP T3	15/05/2017 11:0...	15/05/2017 12:0...	1	
	100613551	CRC363 - Replac...	CRC363-LU01 Cr...	SECONDARY & ...	TAS T2	19/05/2017 1:00...	19/05/2017 2:00...	13	
	100613826	Replace Diverter ...	CRC361-LU01 Cr...	SECONDARY & ...	CUST FP HYDR...	19/05/2017 1:00...	19/05/2017 4:00...	3	
	100613917	CRC361/LU01 - ...	CRC361-LU01 Cr...	SECONDARY & ...	PILBARA ACCES...	21/05/2017 3:30...	22/05/2017 12:3...	9	
	100618070	SZ151-Replace I...	SZ151 Primary Si...	PRIMARY CRU...	CUST FP LUBE T2	20/05/2017 11:3...	21/05/2017 2:00...	2	

9. The software will import the data into the database:



Event details View:

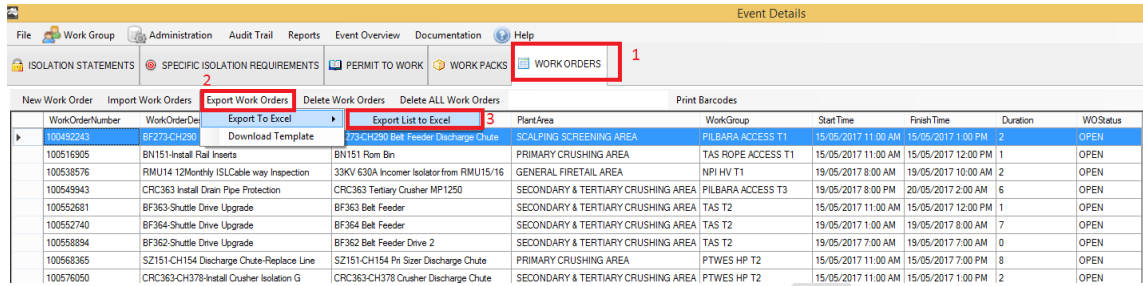


End of Procedure

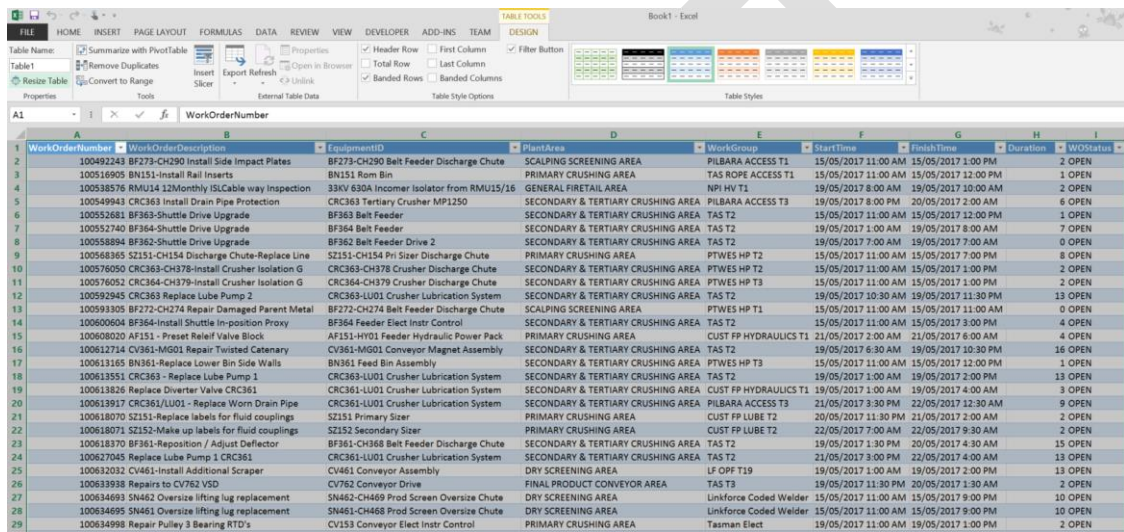
5.2.3 Update Work Orders

As the shut gantt changes, you may need to update the work order details such as start / end time, adding new work orders, remove work orders from gantt, etc. To update and adding new work orders:

1. From your Event Details Form, select **WORK ORDERS > Export Work Orders > Export List to Excel**

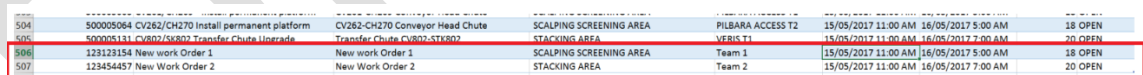


The software will copy all the work orders into a new spreadsheet:



2. Update your data in this spreadsheet, or adding new work orders

In this example, I will add 2 new work orders to the list:

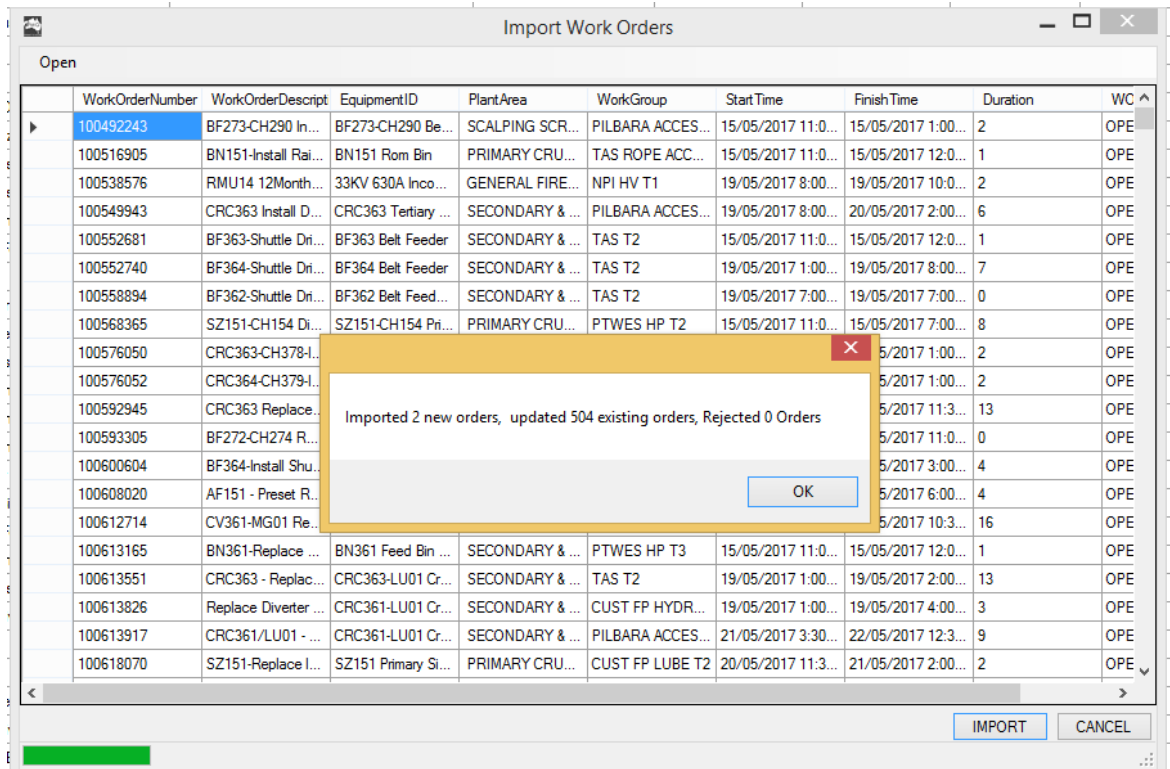


Save and close excel to your desktop once all changes have been made

3. Back to the FMGPermitToWork

Select **WORK ORDERS > IMPORT WORK ORDERS > IMPORT FROM EXCEL File**

Repeat the previous steps to import the work orders:

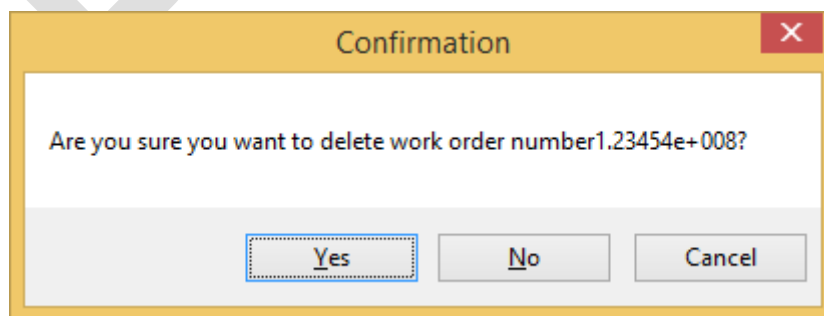
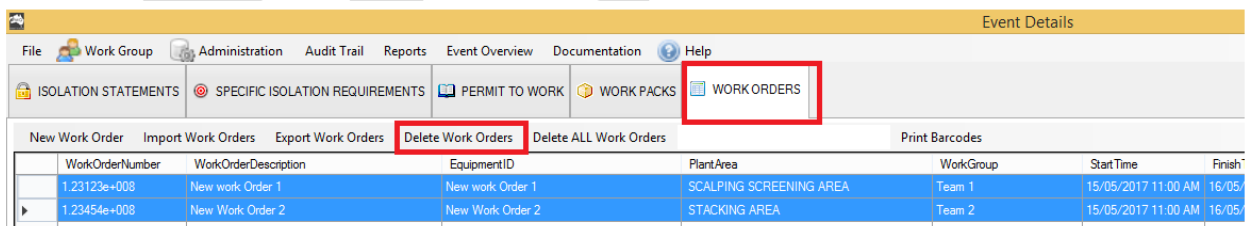


End of Procedure

5.2.4 Delete Work Orders

To delete Work orders from the database, highlight the work orders from the list then

1. WORK ORDERS > Delete Work Orders



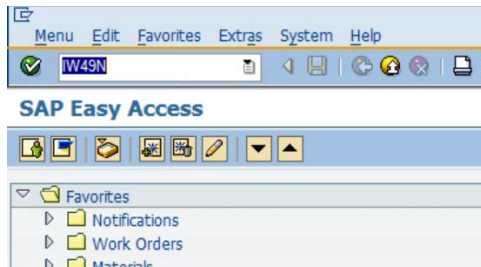
2. Click Yes to proceed.

End of Procedure

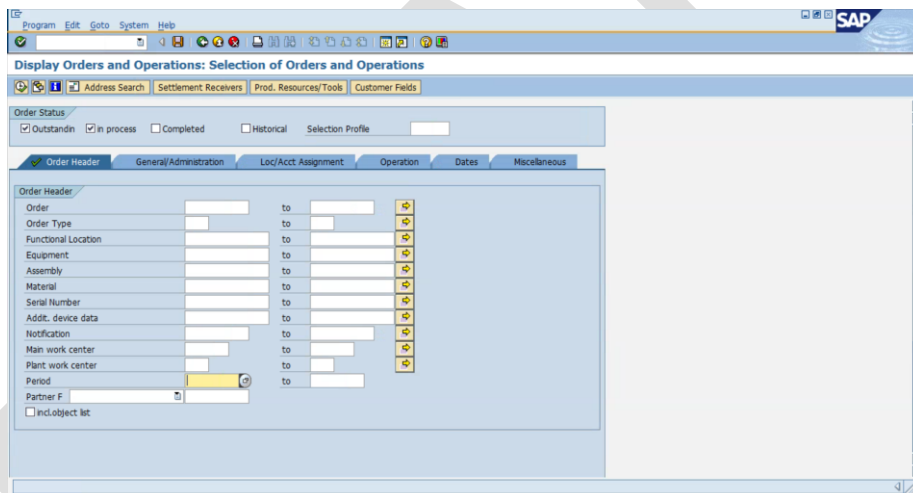
5.2.5 Import Work Orders from SAP & Microsoft Project

This method is recommended for major shutdown where shutdown gantt (Microsoft Project) is available. The program requires 2 pieces of information: SAP Work Orders details (IW49N or IW38) and Microsoft Project.

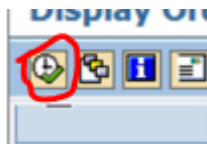
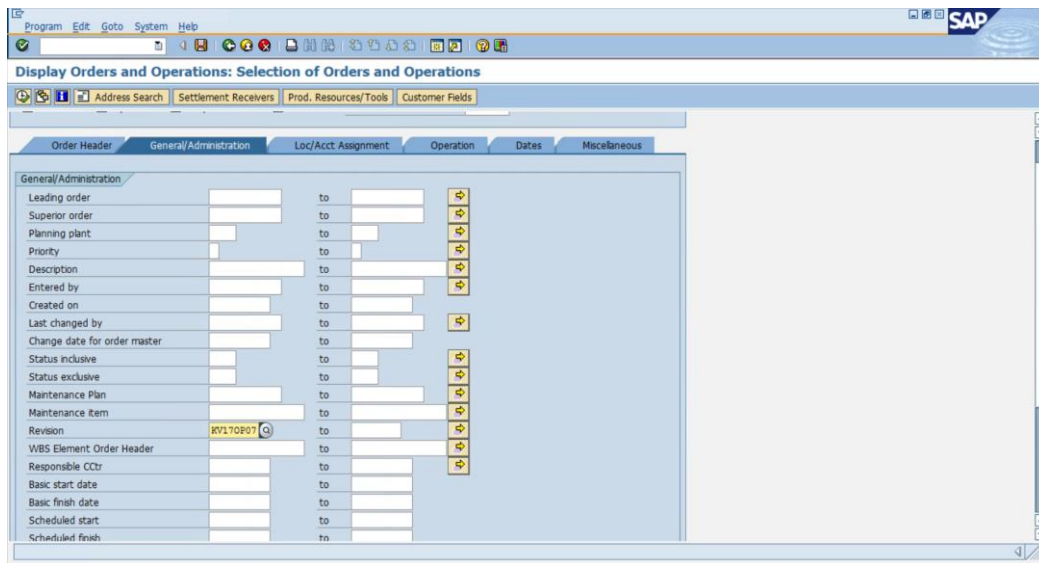
1. Log into your SAP and enter IW49N:



2. On the **Order Header** tab, clear the **Period** information:

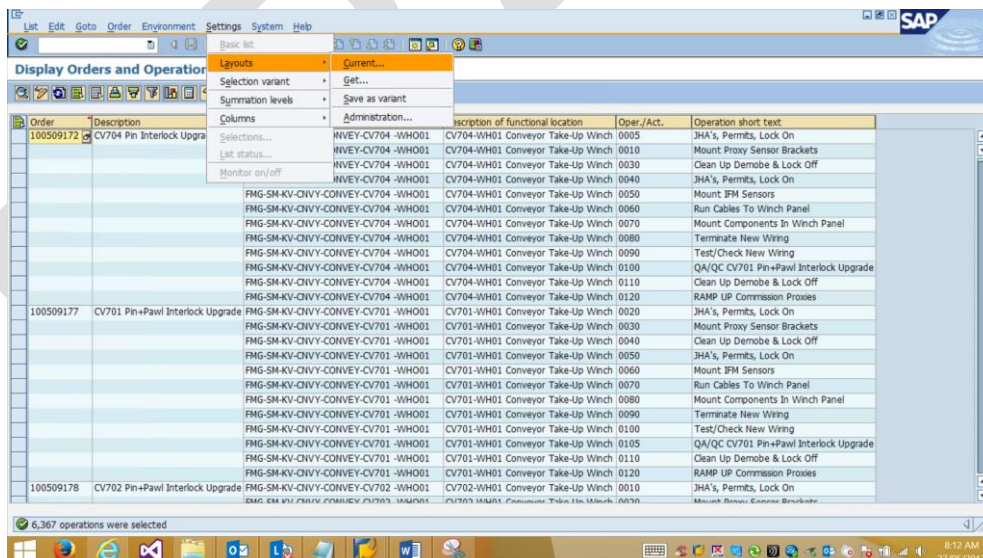


- Click on **General / Administration** and Key in your Shutdown Revision. For example: KV17OP07:

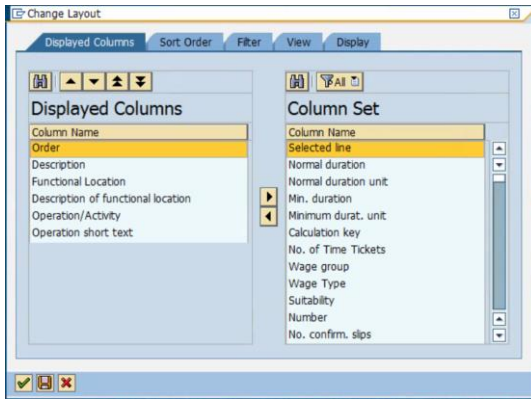



- Click on  to run the query

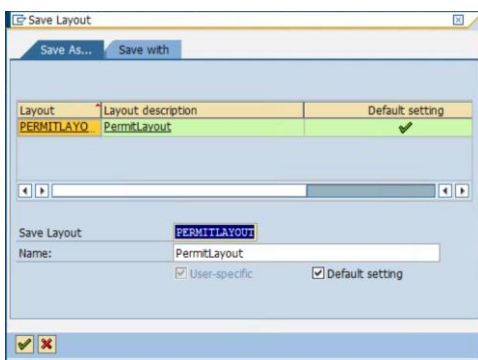
- Select **Settings > Layouts > Current**



- Select the following columns:



7. Click on the Save symbol  to save this layout:



8. Click on green tick to continue  :

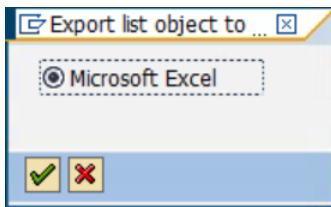
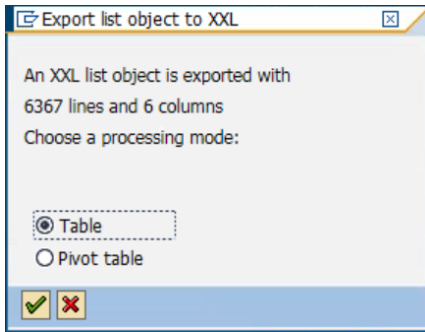
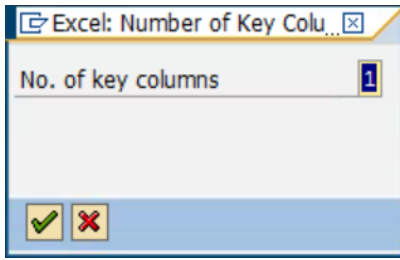
9. Your screen will now displays the work order details:

Order	Description	Functional Location	Description of functional location	Oper./ACT.	Operation short text
100509172	CV704 Pin Interlock Upgrade	FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0005	JHA's, Permits, Lock On
		FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0010	Mount Proxy Sensor Brackets
		FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0030	Clean Up Demobe & Lock Off
		FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0040	JHA's, Permits, Lock On
		FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0050	Mount IFM Sensors
		FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0060	Run Cables To Winch Panel
		FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0070	Mount Components In Winch Panel
		FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0080	Terminate New Wiring
		FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0090	Test/Check New Wiring
		FMG-SM-KV-CHVY-CONVEY-CV704 -WH001	CV704-WH01 Conveyor Take-Up Winch	0100	QA/QC CV701 Pin+Pawl Interlock Upgrade
100509177	CV701 Pin+Pawl Interlock Upgrade	FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0110	Clean Up Demobe & Lock Off
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0120	RAMP UP Commission Process
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0020	JHA's, Permits, Lock On
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0030	Mount Proxy Sensor Brackets
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0040	Clean Up Demobe & Lock Off
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0050	JHA's, Permits, Lock On
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0060	Mount IFM Sensors
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0070	Run Cables To Winch Panel
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0080	Mount Components In Winch Panel
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0090	Terminate New Wiring
100509178	CV702 Pin+Pawl Interlock Upgrade	FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0100	Test/Check New Wiring
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0105	QA/QC CV701 Pin+Pawl Interlock Upgrade
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0110	Clean Up Demobe & Lock Off
		FMG-SM-KV-CHVY-CONVEY-CV701 -WH001	CV701-WH01 Conveyor Take-Up Winch	0120	RAMP UP Commission Process
		FMG-SM-KV-CHVY-CONVEY-CV702 -WH001	CV702-WH01 Conveyor Take-Up Winch	0010	JHA's, Permits, Lock On
		FMG-SM-KV-CHVY-CONVEY-CV702 -WH001	CV702-WH01 Conveyor Take-Up Winch	0020	Mount Proxy Sensor Brackets
		FMG-SM-KV-CHVY-CONVEY-CV702 -WH001	CV702-WH01 Conveyor Take-Up Winch	0030	Clean Up Demobe & Lock Off
		FMG-SM-KV-CHVY-CONVEY-CV702 -WH001	CV702-WH01 Conveyor Take-Up Winch	0040	JHA's, Permits, Lock On
		FMG-SM-KV-CHVY-CONVEY-CV702 -WH001	CV702-WH01 Conveyor Take-Up Winch	0050	Mount IFM Sensors
		FMG-SM-KV-CHVY-CONVEY-CV702 -WH001	CV702-WH01 Conveyor Take-Up Winch	0060	Run Cables To Winch Panel

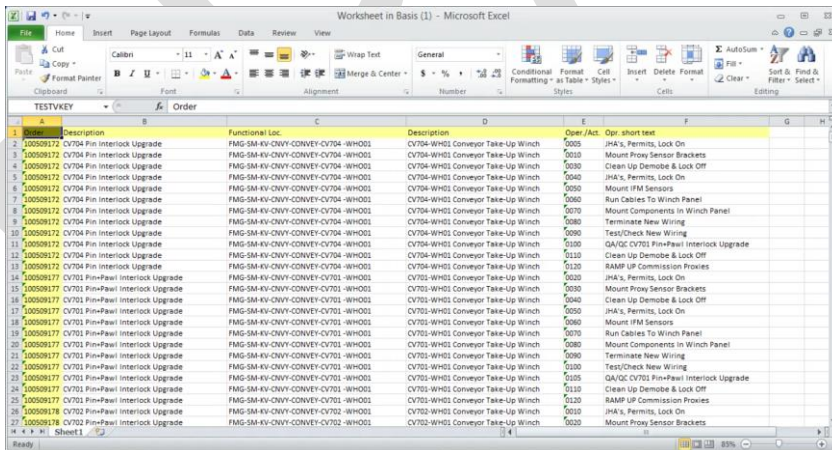
10. Click on the Spreadsheet symbol to save the list



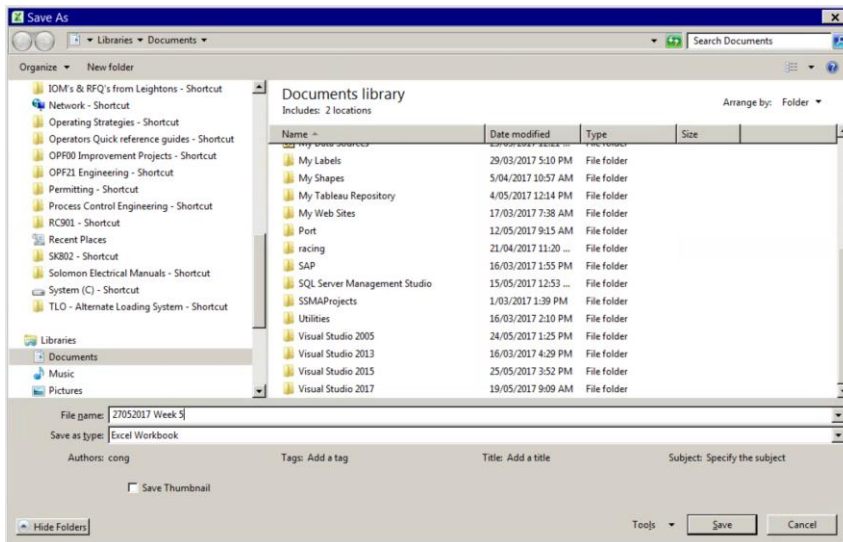
11. Follow the prompts



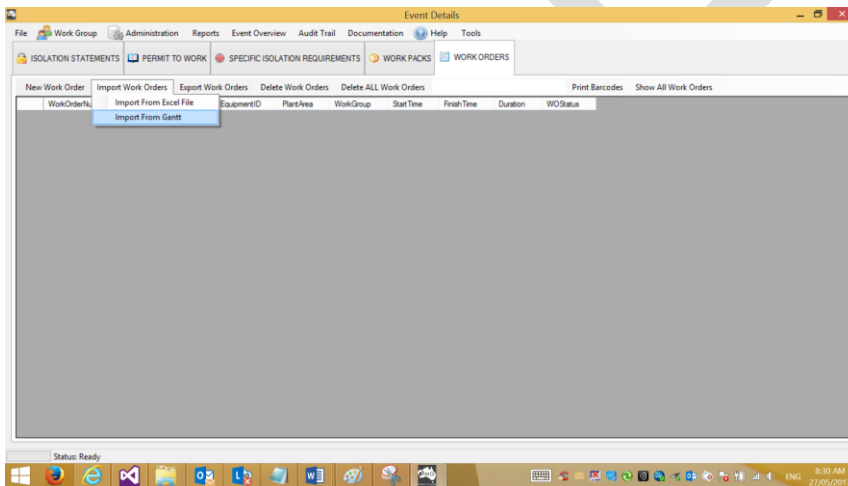
10. Save your excel export to a folder.



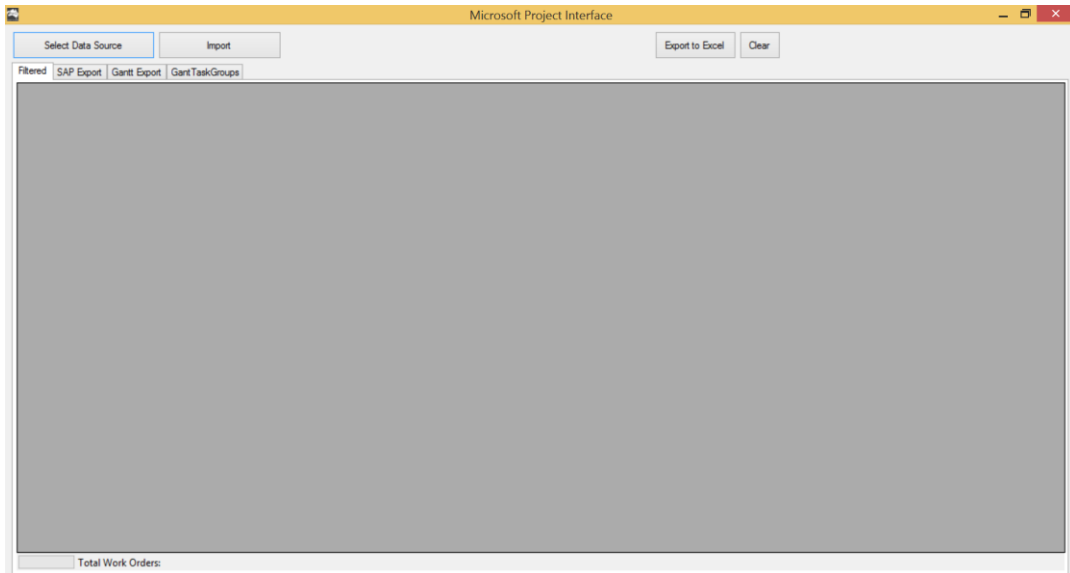
11. In this example we will call it DDMMYYYY Week 5 Churn



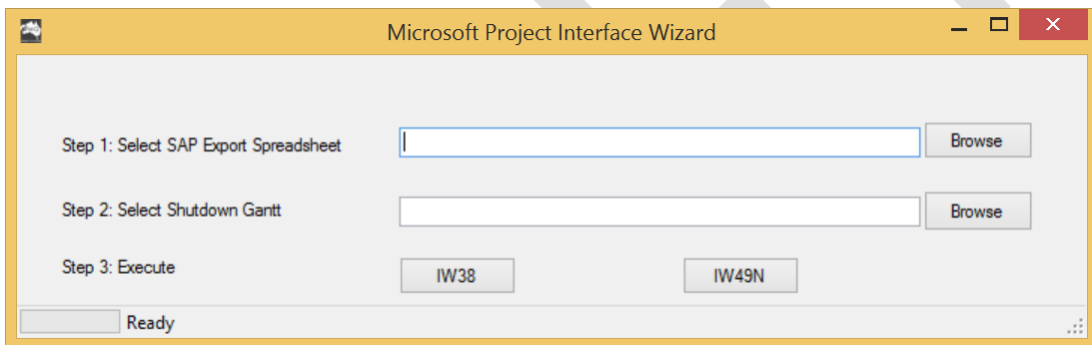
12. Now switch to the Permit to Work Database. Select **Work Orders > Import Work Orders > Import from Gantt**



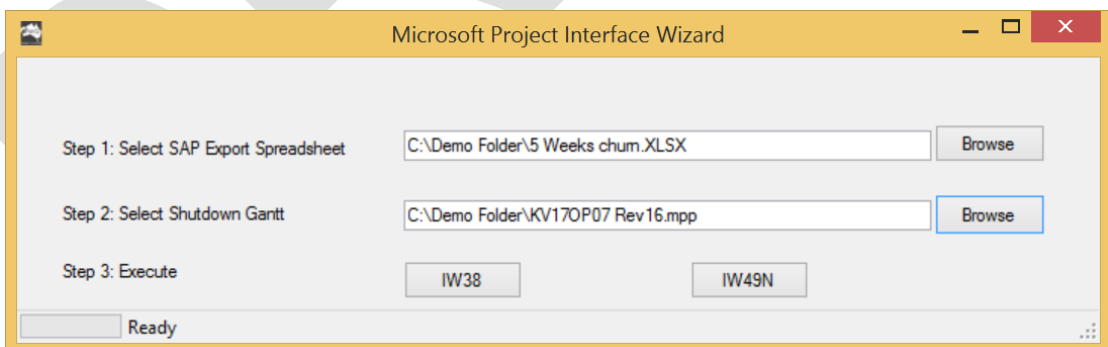
13. Click on **Select Data Source**



14. Step 1: Click Browse and point it at the excel file you just saved:



15. Step 2: Select the Shutdown Gantt. Click **Browse** and select the latest shutdown Gantt



16. IMPORTANT: Ensure your excel file is closed

17. Click on IW49N to run the script, this will take a few minutes to process.

Microsoft Project Interface

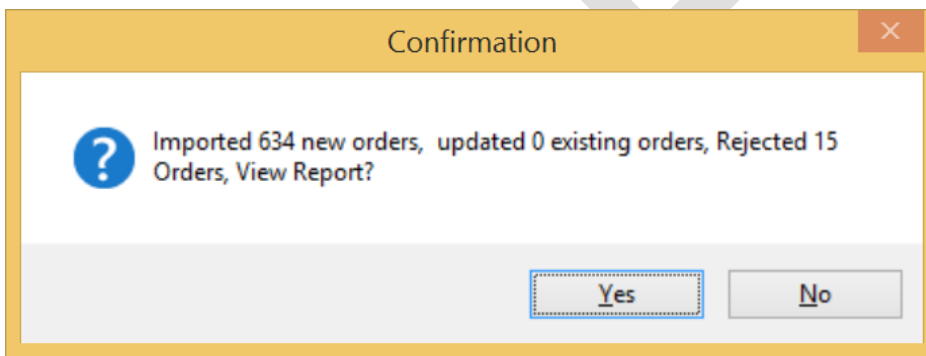
Select Data Source Import Export to Excel Clear

Filtered SAP Export Gantt Export GanttTaskGroups

ID	WorkOrderNumber	WorkOrderDescrpt	EquipmentID	Plant/Area	WorkGroup	StartDate	FinishDate	Duration	StatusInd	Update Status
0	100509172	CV704 Pin Interlo...	FMG-SM-KV-CN...	CV704-WH01 Co.	TASMAN ELEC	30/06/2017 6:00...	30/06/2017 7:00...	1	New	
1	100509177	CV701 Pin+Pawel...	FMG-SM-KV-CN...	CV701-WH01 Co.	TASMAN ELEC	30/06/2017 6:00...	30/06/2017 7:00...	1	New	
2	100509178	CV702 Pin+Pawel...	FMG-SM-KV-CN...	CV702-WH01 Co.	TASMAN ELEC	30/06/2017 6:00...	30/06/2017 7:00...	1	New	
3	100509179	CV703 Pin+Pawel...	FMG-SM-KV-CN...	CV703-WH01 Co.	TASMAN ELEC	30/06/2017 6:00...	30/06/2017 7:00...	1	New	
4	100509180	CV706 Pin+Pawel...	FMG-SM-KV-CN...	CV706-WH01 Co.	TASMAN ELEC	30/06/2017 6:00...	30/06/2017 7:00...	1	New	
5	100509281	CV301 Pin+Pawel...	FMG-SM-KV-CR...	CV301-WH01 Co.	TASMAN ELEC	30/06/2017 6:00...	30/06/2017 7:00...	1	New	
6	100509284	CV302 Pin+Pawel...	FMG-SM-KV-CR...	CV302-WH01 Co.	TASMAN ELEC	30/06/2017 6:00...	30/06/2017 7:00...	1	New	
7	100509286	CV401 Pin+Pawel...	FMG-SM-KV-DS...	CV401-WH01 Co.	TASMAN ELEC	30/06/2017 6:00...	30/06/2017 7:00...	1	New	
8	100522275	CV114 Repair Sa...	FMG-SM-KV-RMI...	CV114 Conveyor	CIVMEC MECH	30/06/2017 6:00...	30/06/2017 7:00...	1	Deleted	
9	100527985	CV704 Install ove...	FMG-SM-KV-CN...	CV704 Overland ...	TASMAN ROPES	7/07/2017 5:30...	7/07/2017 5:30...	0		
10	100549677	Commission pin a...	FMG-SM-KV-RMI...	CV114-WH01 Co.	TASMAN ELEC	30/06/2017 6:00...	30/06/2017 7:00...	1	New	
11	100568010	SZ111 Drv 1 Inst...	FMG-SM-KV-RMI...	SZ111 Sizer Driv...	FMG COMMON	1/07/2017 9:00...	1/07/2017 9:00...	0		
12	100568011	SZ111 Drv 2 Inst...	FMG-SM-KV-RMI...	SZ111 Sizer Driv...	FMG COMMON	1/07/2017 9:00...	1/07/2017 9:00...	0		
13	100568012	SZ112 Drv 1 Inst...	FMG-SM-KV-RMI...	SZ112 Sizer Driv...	FMG COMMON	1/07/2017 8:30...	1/07/2017 9:00...	0		
14	100568013	SZ112 Drv 2 Inst...	FMG-SM-KV-RMI...	SZ112 Sizer Driv...	FMG COMMON	1/07/2017 8:30...	1/07/2017 9:00...	0		
15	100568018	SZ121 Drv 1 Inst...	FMG-SM-KV-RMI...	SZ121 Sizer Driv...	FMG COMMON	1/07/2017 8:30...	1/07/2017 9:00...	0		
16	100568019	SZ121 Drv 2 Inst...	FMG-SM-KV-RMI...	SZ121 Sizer Driv...	FMG COMMON	1/07/2017 8:30...	1/07/2017 9:00...	0		
17	100568093	SZ122 Drv 1 Inst...	FMG-SM-KV-RMI...	SZ122 Sizer Driv...	FMG COMMON	1/07/2017 8:30...	1/07/2017 9:00...	0		
18	100568094	SZ122 Drv 2 Inst...	FMG-SM-KV-RMI...	SZ122 Sizer Driv...	FMG COMMON	1/07/2017 8:30...	1/07/2017 9:00...	0		

Total Work Orders:

18. Click on **IMPORT** to import the preview to the database. Please note the system will reject any work orders that doesn't have a Work Group assigned to them.



19. Click on View Report to view the list

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW DEVELOPER ADD-INS TEAM

Cut Copy Paste Format Painter Clipboard Font Alignment Number Conditional Formatting Table Styles Cell Styles Insert Delete Format Clear Sort & Find Filter Select

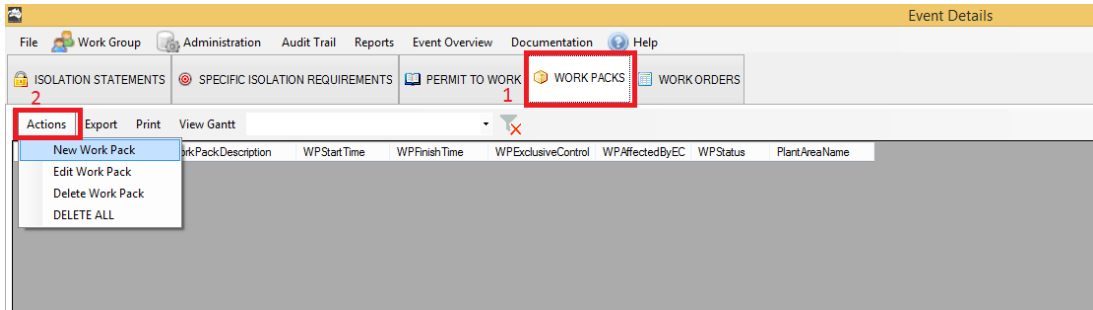
WorkOrderNumber	WorkOrderDescription	EquipmentID	Plant/Area	WorkGroup	StartDate	FinishDate	Duration	StatusInd	Update Status
1	10063722 CV704 Riparea Dist Covers	FMG-SM-KV-FM-CR-CONVEY-CV704-ASBLV	CV704 Conveyor Assembly						Rejected
2	10063722 CV704 Riparea Dist Covers	FMG-SM-KV-FM-CR-CONVEY-CV704-ASBLV	CV704 Conveyor Assembly						Rejected
3	10063722 CV704 Riparea Dist Covers	FMG-SM-KV-FM-CR-CONVEY-CV704-ASBLV	CV704 Conveyor Assembly						Rejected
4	10063722 CV704 Riparea Dist Covers	FMG-SM-KV-FM-CR-CONVEY-CV704-ASBLV	CV704 Conveyor Assembly						Rejected
5	10063722 CV704 Riparea Dist Covers	FMG-SM-KV-FM-CR-CONVEY-CV704-ASBLV	CV704 Conveyor Assembly						Rejected
6	10063722 CV704 Riparea Dist Covers	FMG-SM-KV-FM-CR-CONVEY-CV704-ASBLV	CV704 Conveyor Assembly						Rejected
7	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
8	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
9	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
10	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
11	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
12	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
13	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
14	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
15	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
16	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
17	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
18	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
19	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
20	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
21	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
22	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
23	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
24	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
25	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
26	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
27	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
28	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
29	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
30	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
31	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
32	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
33	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
34	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
35	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
36	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
37	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
38	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
39	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected
40	10070880 CH208 INSTALL LINER INSERTS ALL WALLS	FMG-SM-KV-WTTE-SCF805-S402-CH208	SH402-CH208 Vnt Screen Midsize Chute						Rejected

END OF PROCEDURE

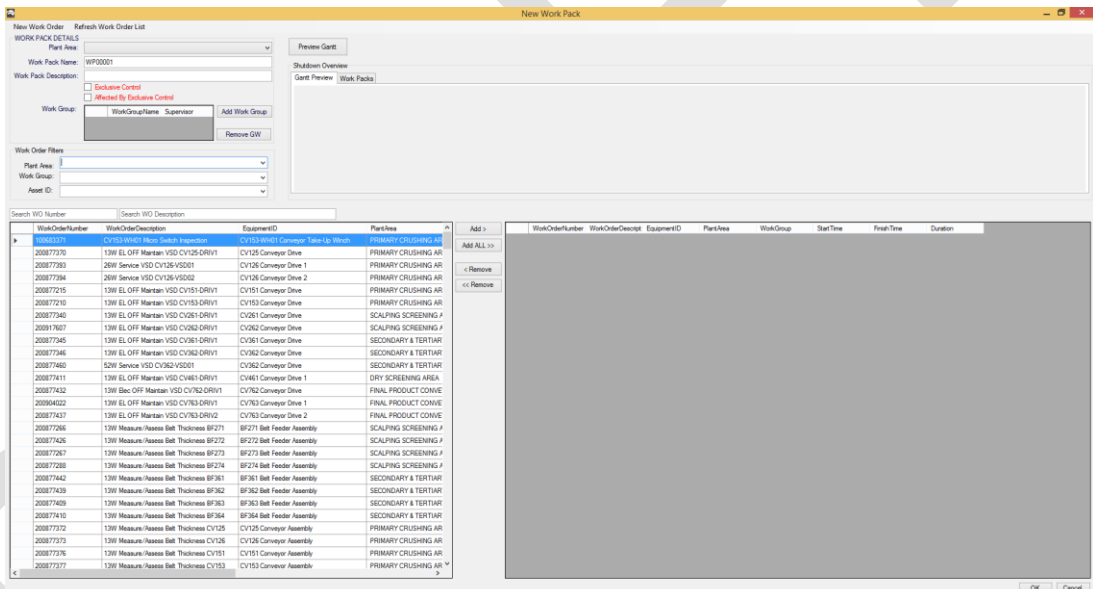
5.3 WORK PACKS

5.3.1 Create New Work Pack

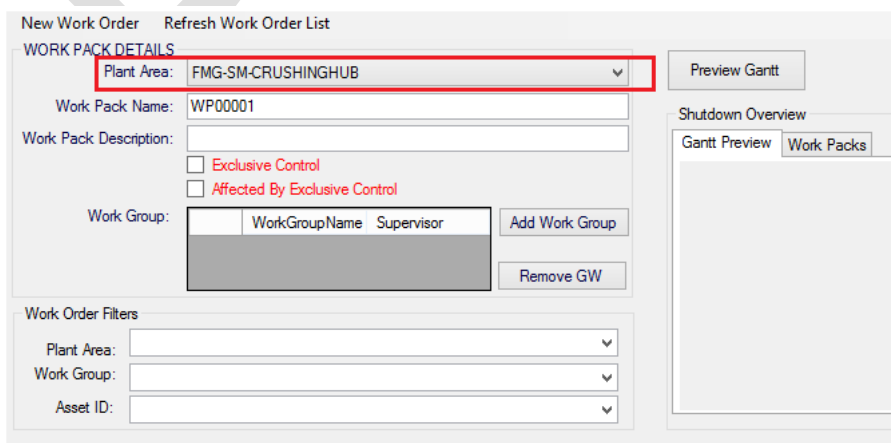
1. From the Event Details Form, Select **WORK PACKS > Actions > New Work Pack**



2. New Work Pack form will pop up:



3. Select the Plant Area from the drop list:



- In the **Work Order Filters**, select the Plant Area filter. This will narrow down Work Group and Asset ID filters:

The screenshot shows the 'Work Order Filters' section of a software interface. The 'Plant Area' dropdown is open, displaying a list of assets. A red box highlights the 'Plant Area' dropdown menu, and a red '1' is placed next to it. The assets listed include:

- 80FT EWP
- ABB/HES T1
- ALS T1
- CONVATECH ROLLER T3
- CONVATECH SCRAP T1
- CONVATECH SCRAP T2
- CUST FP BRAKE T1
- CUST FP HYDRAULICS T1
- CUST FP LUBE T1
- CUST FP LUBE T2
- FMG CON MON T1
- FMG ELECT PREPS
- HES T1
- LF OPF T24
- LF OPF T25
- LINMAC T2
- MONADELPHOUS
- PILBARA ACCESS PREP
- PILBARA ACCESS T6
- PILBARA ACCESS T7
- PTWES HP T2
- PTWES HP T3
- SCHENCK T1
- TAS BW T1
- TAS ROPE ACCESS T1
- TAS T4
- TAS T5
- TAS T6
- TAS T7
- TAS T8

Below the list, there is a search bar for 'Search WO Number' and a table with columns: WorkOrderNumber, WorkOrderDescription, EquipmentID, PlantArea, WorkGroup, and StartTime.

- Select Work Group to filter down the work orders. In this example, I will select HES T1:

The screenshot shows the 'Work Order Filters' section of the software interface. The 'Work Group' dropdown is open, and 'HES T1' is selected. The 'Plant Area' dropdown is still set to 'PRIMARY CRUSHING AREA'. Below the filters, there is a search bar for 'Search WO Number' and 'Search WO Description', and a table with columns: WorkOrderNumber, WorkOrderDescription, EquipmentID, PlantArea, WorkGroup, and StartTime.

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartTime
100672196	Check HV Motor Terminal Connections	SZ152 Sizer Drive 1	PRIMARY CRUSHING AREA	HES T1	22/05/2017 9:0
100672192	Check HV Motor Terminal Connections	SZ152 Sizer Drive 2	PRIMARY CRUSHING AREA	HES T1	22/05/2017 7:0

- Select the Work Orders then click on **ADD** to select

Work Order Filters

Plant Area: PRIMARY CRUSHING AREA

Work Group: HES T1

Asset ID:

Search WO Number Search WO Description

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartTime	FinishTime	Duration	
100672196	Check HV Motor Terminal Connections	SZ152 Sizer Drive 1	PRIMARY CRUSHING AREA	HES T1	22/05/2017 9:00	22/05/2017 11:00	2	Add >
100672192	Check HV Motor Terminal Connections	SZ152 Sizer Drive 2	PRIMARY CRUSHING AREA	HES T1	22/05/2017 7:00	22/05/2017 9:00	2	Add ALL >>

< Remove

<< Remove

Work Order Filters

Plant Area: PRIMARY CRUSHING AREA

Work Group: HES T1

Asset ID:

Search WO Number Search WO Description

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartTime	FinishTime	Duration	
100672196	Check HV Motor Terminal Connections	SZ152 Sizer Drive 1	PRIMARY CRU.	HES T1	22/05/2017 9:00	22/05/2017 11:00	2	
100672192	Check HV Motor Terminal Connections	SZ152 Sizer Drive 2	PRIMARY CRU.	HES T1	22/05/2017 7:00	22/05/2017 9:00	2	

Add >

Add ALL >>

< Remove

<< Remove

7. On the **Work Pack Details**, click **Add Work Group**

New Work Order Refresh Work Order List

WORK PACK DETAILS

Plant Area: FMG-SM-CRUSHINGHUB

Work Pack Name: WP00001

Work Pack Description: SZ152 Sizer Drive 1-

Exclusive Control

Affected By Exclusive Control

Work Group:

WorkGroupName	Supervisor	
		Add Work Group

Remove GW

Work Order Filters

Plant Area: PRIMARY CRUSHING AREA

Work Group: HES T1

Asset ID:

8. Select the Work Group from the list. Click **OK** to proceed

Select Work Groups

New Work Group Edit Update

WorkGroupName	WorkGroupSupervisor
25T Franna	
ABB	
ALS	
Convatech Belt	
Crane	
Custom Fluid Power	
FMG lube	
FMG Operator	
HES	
High Energy	
Linkforce BM	
LinkForce FT	

OK Cancel

- Once work group(s) is selected, the work pack description will be auto generated. Change the description where suits.

New Work Order Refresh Work Order List

WORK PACK DETAILS

Plant Area: FMG-SM-CRUSHINGHUB

Work Pack Name: WP00001

Work Pack Description: SZ152 Sizer Drive 1-HES

Exclusive Control

Affected By Exclusive Control

Work Group:

WorkGroupName	Supervisor
HES	

Add Work Group

Remove GW

Work Order Filters

Plant Area: PRIMARY CRUSHING AREA

Work Group: HES T1

Asset ID:

- Click **OK** to proceed

New Work Order Refresh Work Order List

WORK PACK DETAILS

Plant Area: FMG-SM-CRUSHINGHUB

Work Pack Name: WP00001

Work Pack Description: SZ152 Sizer Drive 1-HES

Exclusive Control

Affected By Exclusive Control

Work Group:

WorkGroupName	Supervisor
HES	

Add Work Group

Remove GW

Work Order Filters

Plant Area: PRIMARY CRUSHING AREA

Work Group: HES T1

Asset ID:

Substation Overview

Card Preview: Work Packs

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartTime	EndTime	Duration
10067182	Check HV Meter	SZ152 Sizer Drive	PRIMARY CRU	HES T1	20/05/2017 7:00	20/05/2017 8:00	1

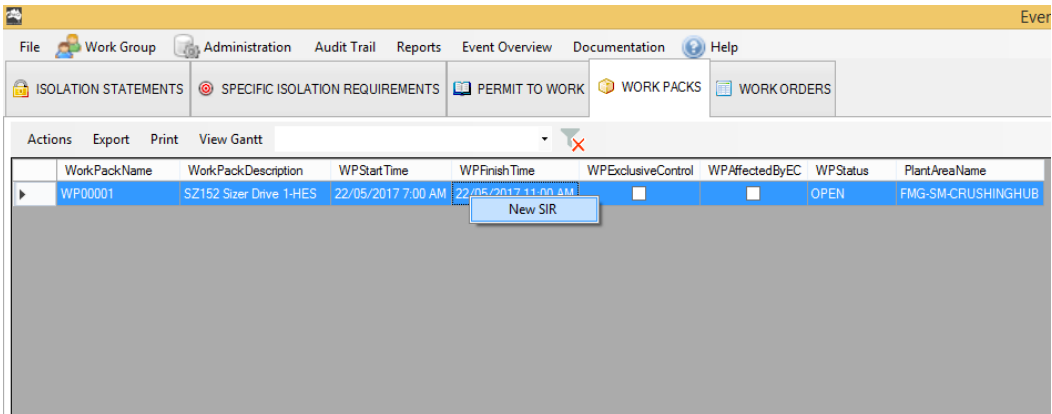
OK Cancel

End of Procedure

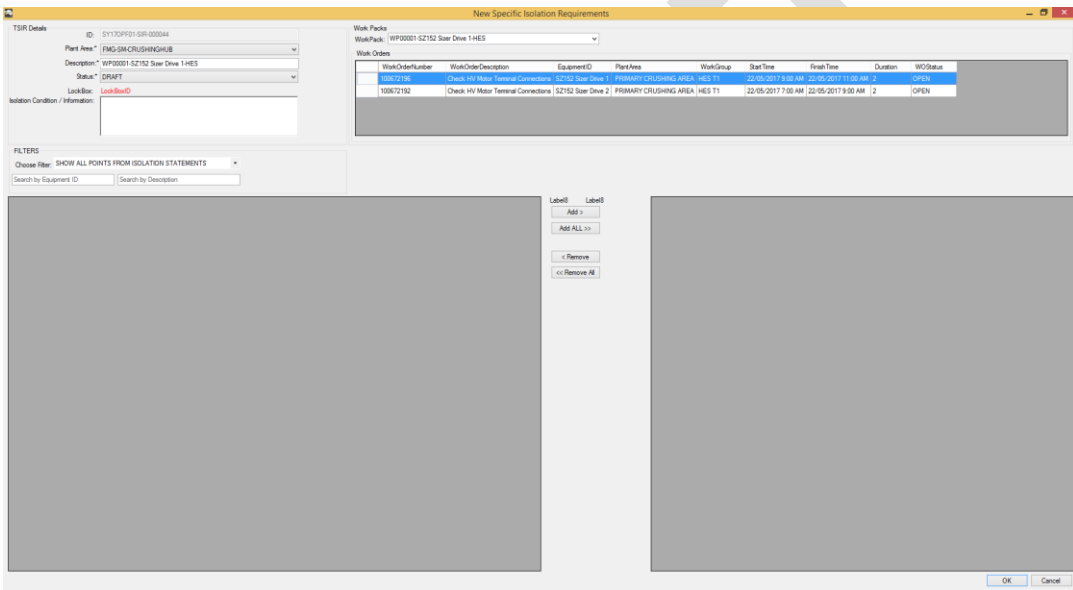
5.3.2 Create New SIR

Once the Work Pack is created, you can create a new Specific Isolation Requirements for this newly created Work Pack:

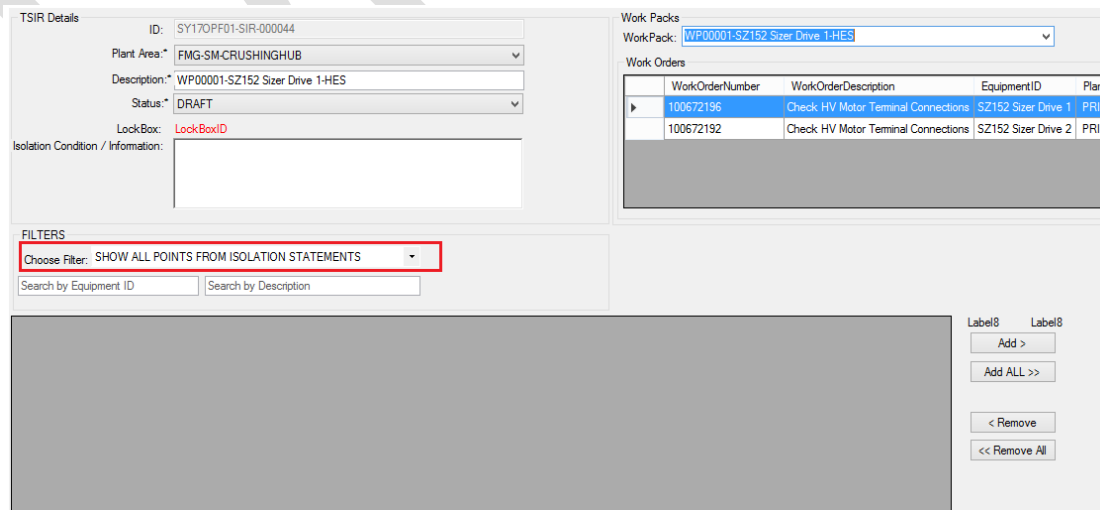
- From the Event Details, select the **Work Pack** then **Right-click** then **New SIR**



2. New SIR Form will pop up



3. Select the Isolation Points for this SIR. You can choose to filter the points from Isolation Statements OR show all Points:



4. In this example, I will choose to filter all the points:

FILTERS

Choose Filter: **SHOW ALL AVAILABLE POINTS**

Search by Equipment ID Search by Description

EquipmentName	IsolationPoint	IsolationLevel	EnergySource
CONVEYOR TAIL BRAKE 1	400V SUB801-MCC01-CV802-BKL01	LV	Electrical, Gravitational, Me
CONVEYOR SUMP PUMP 1	400V SUB801-MCC01-SP801-CV802	LV	Electrical
CONVEYOR SUMP PUMP 2	400V SUB801-MCC01-SP802-CV802	LV	Electrical
C/W WINCH MAIN ISOLATOR	400V SUB901-MCC01-CV902-WH01	LV	Electrical, Mechanical
CV151 WINCH CHAINS 1	CV151 WINCH CHAINS 1	M	MECHANICAL
TAIL BRAKE	400V SUB801-MCC01-CV801-BKL01	LV	Electrical, Mechanical, Gra
DRIVE 1 VSD LV AUXILIARY SUPPLY	400V SUB801-MCC01-CV801-DRIVE1	LV	Electrical
DRIVE 2 VSD LV AUXILIARY SUPPLY	400V SUB801-MCC01-CV801-DRIVE2	LV	Electrical
C/W WINCH MAIN ISOLATOR	400V SUB801-MCC01-CV801-WH01	LV	Electrical, Gravitational, Me
DRIVE 1 VSD LV AUXILIARY SUPPLY	400V SUB801-MCC01-CV802-DRIVE1	LV	Electrical
C/W WINCH MAIN ISOLATOR	400V SUB801-MCC01-CV802-WH01	LV	Electrical, Gravitational, Me
FIRE WATER PUMP SYSTEM	400V SUB801-MCC01-FPP-901	LV	Electrical, Mechanical
TURNOVER PIT WATER BOOSTER PUMP	400V SUB801-MCC01-PU801-SK801	LV	Electrical, High Pressure, S
TURNOVER PIT WATER BOOSTER PUMP	400V SUB801-MCC01-PU802-SK802	LV	Electrical, High Pressure, S
PROCESS WATER PUMP 1	400V SUB801-MCC01-PU901	LV	Electrical, Mechanical
PROCESS WATER PUMP 2	400V SUB801-MCC01-PU902	LV	Electrical, Mechanical

5. Type in the Asset ID to narrow the list further down:

FILTERS

Choose Filter: **SHOW ALL AVAILABLE POINTS**

SZ152 Search by Description

EquipmentName	IsolationPoint	IsolationLevel	EnergySource	ClearlyLabeled	StatusRequire
SZ152 DECK WATER VALVE MECHANICAL	FIELD-SZ152-VA1025	M	Mechanical, Stored	Y	OFF
SZ152 SIZER TRAVEL MOTOR 1	SR151-MCC01-SZ152-EM003	LV	Electrical, Mechanical	Y	OFF
SZ152 SIZER TRAVEL MOTOR 2	SR151-MCC01-SZ152-EM004	LV	Electrical, Mechanical	Y	OFF
SZ152 GEARBOX COOLER FAN 1	SR151-MCC01-SZ152-EM005	LV	Electrical, Mechanical	Y	OFF
SZ152 GEARBOX COOLER FAN 2	SR151-MCC01-SZ152-EM006	LV	Electrical, Mechanical	Y	OFF
SZ152 OIL CIRCULATION PUMP 1	SR151-MCC01-SZ152-EM007	LV	Electrical, Hydraulic	Y	OFF
SZ152 OIL CIRCULATION PUMP 2	SR151-MCC01-SZ152-EM008	LV	Electrical, Hydraulic	Y	OFF
SZ152 LUBE SYSTEM	SR151-MCC01-SZ152-EM009	LV	Electrical, Hydraulic	Y	OFF
SZ152 DRIVE 1 & 2 ANTI-CONDENSATION HEATER	SR152-SWB01-A05-SZ152-FB91	LV	Electrical, Thermal	Y	OFF
SZ152 6.6KV CB EARTH SWITCH	SR152-SWB01-SZ152-A05-E/SW	HV	Electrical	Y	CLOSED
SZ152 6.6KV CB RACKING CONTROL MCB	SR152-SWB01-SZ152-A05-FB70	LV	Electrical, Mechanical	Y	OFF
SZ152 6.6KV CB DRIVE FWD	SR152-SWB01-SZ152-A05-FWD	HV	Electrical, Mechanical	Y	RACKED OUT
SZ152 6.6KV CB EARTH SWITCH	SR152-SWB01-SZ152-A06-E/SW	HV	Electrical	Y	CLOSED
SZ152 6.6KV CB RACKING CONTROL MCB	SR152-SWB01-SZ152-A06-FB70	LV	Electrical, Mechanical	Y	OFF
SZ152 6.6KV DRIVE REV	SR152-SWB01-SZ152-A06-REV	HV	Electrical, Mechanical	Y	RACKED OUT
SZ152 6.6KV CB DRIVE REV (BUS SHUTTER)	SR152-SWB01-SZ152-A06-REV (SHUTTER)	HV	Electrical	N	CLOSED
SZ152 6.6KV CB RACKING CONTROL ISOLATOR	SR152-SWB02-SZ152-A05-FB70-ISOLATOR	LV	Electrical	Y	OFF
SZ152 6.6KV CB RACKING CONTROL ISOLATOR	SR152-SWB02-SZ152-A06-FB70-ISOLATOR	LV	Electrical	Y	OFF
SZ152 6.6KV CB DRIVE FWD (BUS SHUTTER)	SZ152SR152-SWB01-SZ152-A05-FWD (SHUTTER)	HV	Electrical	N	CLOSED

19 0

Add >

Add ALL >>

< Remove

<< Remove All

6. Highlight the points which you want to select then click **ADD**

FILTERS

Choose Filter: **SHOW ALL AVAILABLE POINTS**

SZ152 Search by Description

EquipmentName	IsolationPoint	IsolationLevel	EnergySource	ClearlyLabeled	StatusRequire
SZ152 DECK WATER VALVE MECHANICAL	FIELD-SZ152-VA1025	M	Mechanical, Stored	Y	OFF
SZ152 SIZER TRAVEL MOTOR 1	SR151-MCC01-SZ152-EM003	LV	Electrical, Mechanical	Y	OFF
SZ152 SIZER TRAVEL MOTOR 2	SR151-MCC01-SZ152-EM004	LV	Electrical, Mechanical	Y	OFF
SZ152 GEARBOX COOLER FAN 1	SR151-MCC01-SZ152-EM005	LV	Electrical, Mechanical	Y	OFF
SZ152 GEARBOX COOLER FAN 2	SR151-MCC01-SZ152-EM006	LV	Electrical, Mechanical	Y	OFF
SZ152 OIL CIRCULATION PUMP 1	SR151-MCC01-SZ152-EM007	LV	Electrical, Hydraulic	Y	OFF
SZ152 OIL CIRCULATION PUMP 2	SR151-MCC01-SZ152-EM008	LV	Electrical, Hydraulic	Y	OFF
SZ152 LUBE SYSTEM	SR151-MCC01-SZ152-EM009	LV	Electrical, Hydraulic	Y	OFF
SZ152 DRIVE 1 & 2 ANTI-CONDENSATION HEATER	SR152-SWB01-A05-SZ152-FB91	LV	Electrical, Thermal	Y	OFF
SZ152 6.6KV CB EARTH SWITCH	SR152-SWB01-SZ152-A05-E/SW	HV	Electrical	Y	CLOSED
SZ152 6.6KV CB RACKING CONTROL MCB	SR152-SWB01-SZ152-A05-FB70	LV	Electrical, Mechanical	Y	OFF
SZ152 6.6KV CB DRIVE FWD	SR152-SWB01-SZ152-A05-FWD	HV	Electrical, Mechanical	Y	RACKED OUT
SZ152 6.6KV CB EARTH SWITCH	SR152-SWB01-SZ152-A06-E/SW	HV	Electrical	Y	CLOSED
SZ152 6.6KV CB RACKING CONTROL MCB	SR152-SWB01-SZ152-A06-FB70	LV	Electrical, Mechanical	Y	OFF
SZ152 6.6KV DRIVE REV	SR152-SWB01-SZ152-A06-REV	HV	Electrical, Mechanical	Y	RACKED OUT
SZ152 6.6KV CB DRIVE REV (BUS SHUTTER)	SR152-SWB01-SZ152-A06-REV (SHUTTER)	HV	Electrical	N	CLOSED
SZ152 6.6KV CB RACKING CONTROL ISOLATOR	SR152-SWB02-SZ152-A05-FB70-ISOLATOR	LV	Electrical	Y	OFF
SZ152 6.6KV CB RACKING CONTROL ISOLATOR	SR152-SWB02-SZ152-A06-FB70-ISOLATOR	LV	Electrical	Y	OFF
SZ152 6.6KV CB DRIVE FWD (BUS SHUTTER)	SZ152SR152-SWB01-SZ152-A05-FWD (SHUTTER)	HV	Electrical	N	CLOSED

19 0

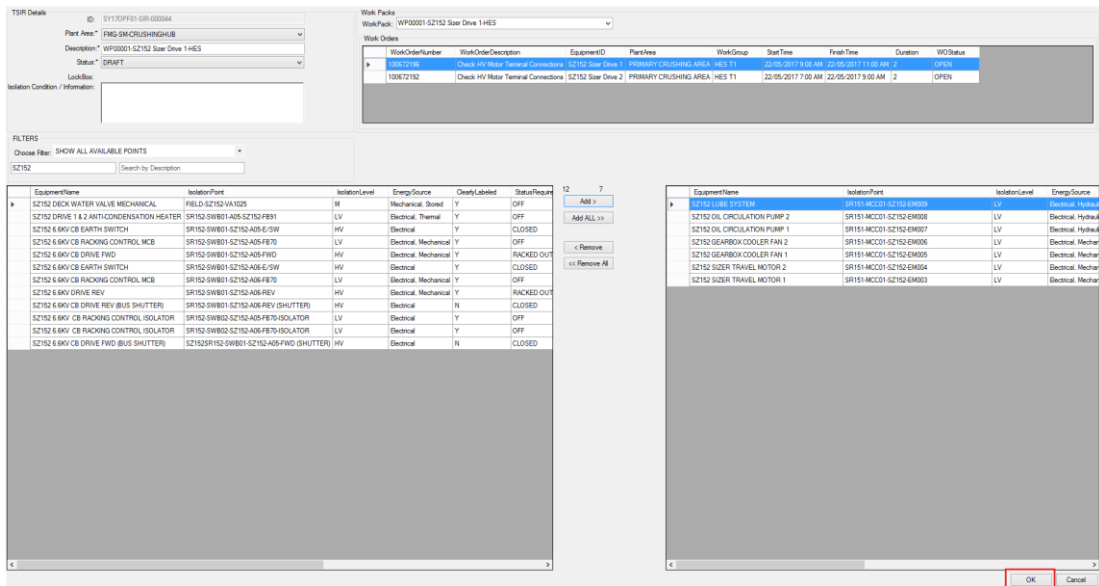
Add >

Add ALL >>

< Remove

<< Remove All

- Once you are happy with the selected SIR points for the work orders displayed at the top in the work order list. Select **OK**

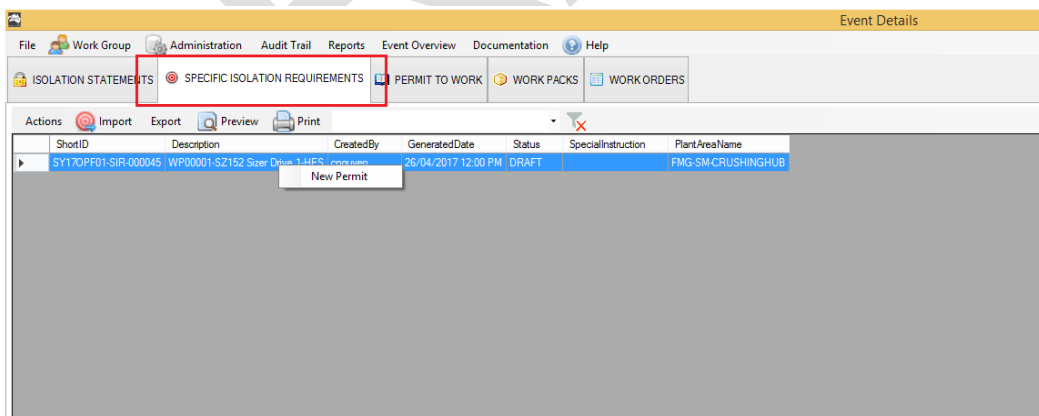


End of Procedure

5.3.3 Create New Permit To Work

After SIR is created, you may now generate a Permit to Work for this SIR / Work Pack:

- From the Event Details Form, click on **SPECIFIC ISOLATION REQUIREMENTS** tab
- Select the SIR from the list, **Right-click** then select **New Permit**



- New Permit Form will popup:

- Here you can specify new Permit Start Time / End Time, and Permit Holder details if available:

- Click **OK** to complete

End of Procedure

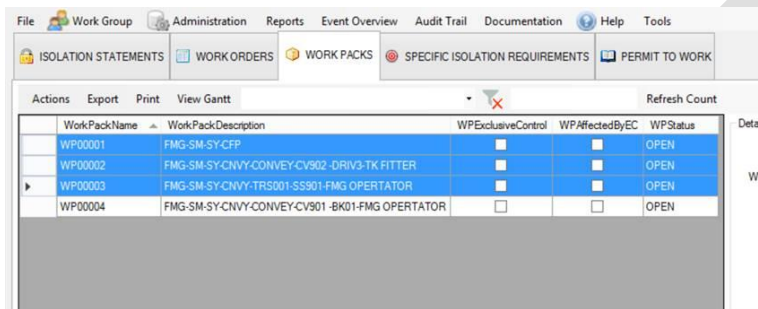
5.3.4 Merging Work Packs

Quick Merging Work Packs will allow user to merge the work orders from 2 or more Work Packs together. For example:

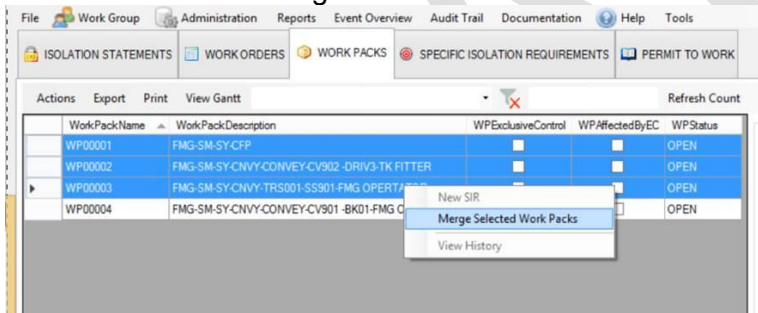
Merging WP0001 with WP0002 and WP0003 will:

- Transfer WP0002 & WP0003's Work Orders into WP0001
- Delete WP0002 & WP0003
- Delete WP0002 & WP0003's SIR (if any exists)
- Delete WP0002 & WP0003's PTW (if any exists)

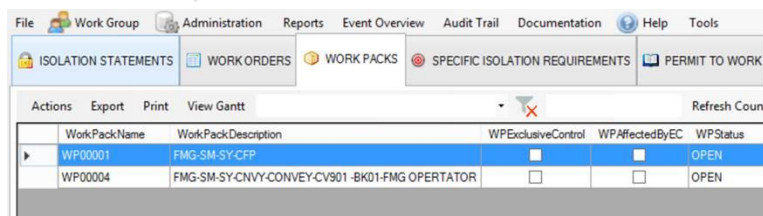
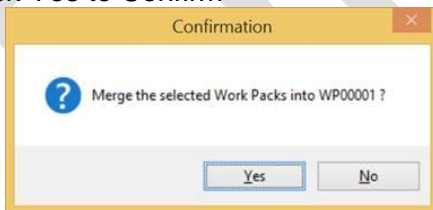
1. Select the Work Packs you wish to Merge by holding down the Ctrl Key:



2. Right Click and Select “Merge Selected Work Packs”



3. Click Yes to Confirm

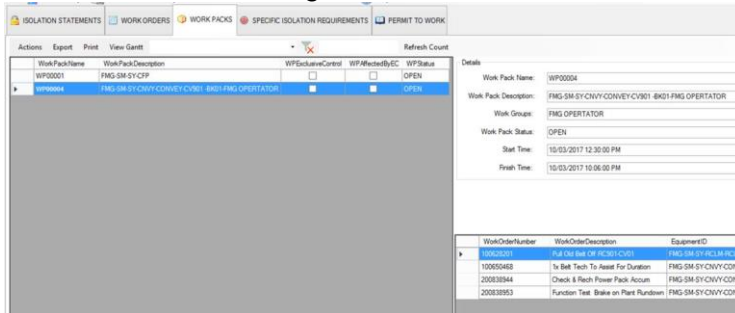


End of Procedure

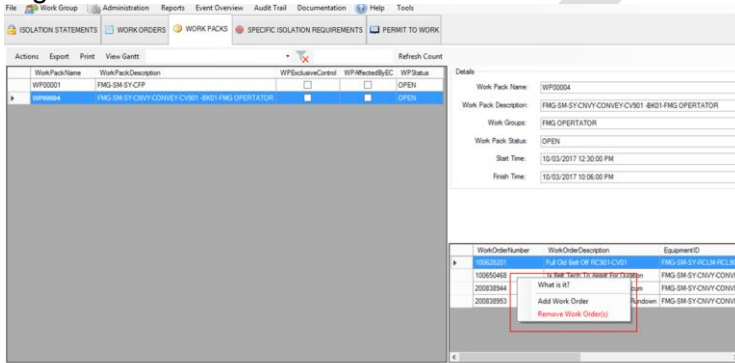
5.3.5 Work Pack Shortcuts

To quickly add or remove work orders from Work Pack:

- a. Select a Work Pack. Right click on the Work Order list



- b. Right-click on the Work Order list



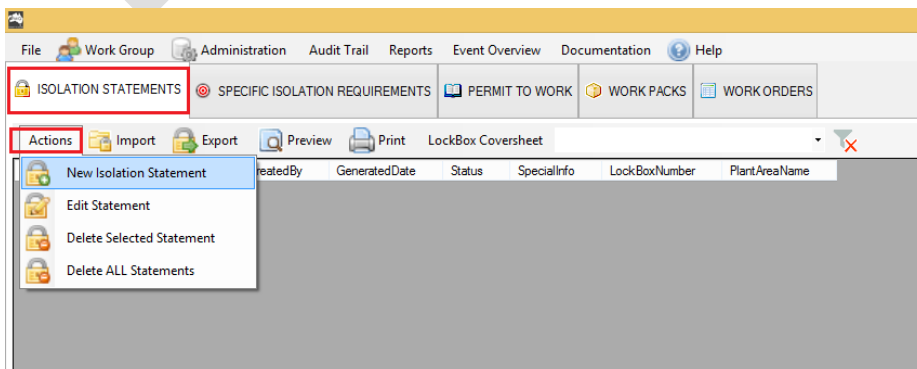
- c. Select Add Work Order or Remove Work Orders

End of Procedure.

5.4 ISOLATION STATEMENTS

5.4.1 Create New Isolation Statement

1. Select **ISOLATION STATEMENTS** tab.
2. Click on **Actions > New Isolation Statement**



3. A new isolation Statement Form will pop up.
 - a. Choose the Plant Area from the list
 - b. Type in the Description
 - c. Select a Lock Box for this statement

ID: SY170PF01-IS-000001
 Plant Area: FMG-SM-CRUSHINGHUB
 Description: SHUTDOWN WORKS - SZ152
 Lock Box: 1
 Status: DRAFT
 Isolation Condition / Information:

FILTERS
 Choose Filter: SHOW ALL AVAILABLE ISOLATION POINTS (NO DUPLICATE)
 Search by Equipment ID Search by Description

4. Choose the Isolation Points from the list. You can further narrow down the list by type in the Equipment ID or description. Note: you can also choose to show ONLY THE MISSING POINTS FROM SIR

ID: SY170PF01-IS-000001
 Plant Area: FMG-SM-CRUSHINGHUB
 Description: SHUTDOWN WORKS - SZ152
 Lock Box: 1
 Status: DRAFT
 Isolation Condition / Information:

FILTERS
 Choose Filter: SHOW ALL AVAILABLE ISOLATION POINTS (NO DUPLICATE)
 sz152 Search by Description

EquipmentName	IsolationPoint	IsolationLevel	EnergySource	ClearlyLabeled	StatusRequired
SZ152 DECK WATER VALVE MECHANICAL	FIELD-SZ152-VA1025	M	Mechanical, Stored	Y	OFF
SZ152 SIZER TRAVEL MOTOR 1	SR151-MCC01-SZ152-EM003	LV	Electrical, Mechanical	Y	OFF
SZ152 SIZER TRAVEL MOTOR 2	SR151-MCC01-SZ152-EM004	LV	Electrical, Mechanical	Y	OFF
SZ152 GEARBOX COOLER FAN 1	SR151-MCC01-SZ152-EM005	LV	Electrical, Mechanical	Y	OFF
SZ152 GEARBOX COOLER FAN 2	SR151-MCC01-SZ152-EM006	LV	Electrical, Mechanical	Y	OFF
SZ152 OIL CIRCULATION PUMP 1	SR151-MCC01-SZ152-EM007	LV	Electrical, Hydraulic	Y	OFF
SZ152 OIL CIRCULATION PUMP 2	SR151-MCC01-SZ152-EM008	LV	Electrical, Hydraulic	Y	OFF
SZ152 LUBE SYSTEM	SR151-MCC01-SZ152-EM009	LV	Electrical, Hydraulic	Y	OFF
SZ152 DRIVE 1 & 2 ANTI-CONDENSATION HEATER	SR152-SWB01-A05-SZ152-FB91	LV	Electrical, Thermal	Y	OFF

19 0
 Add >
 Add ALL >>
 < Remove
 << Remove All

5. Select the point(s) then click **Add** to select

FILTERS
Choose Filter: SHOW ALL AVAILABLE ISOLATION POINTS (NO DUPLICATE) ▾
sz152 Search by Description

Available Points

EquipmentName	IsolationPoint	IsolationLevel	EnergySource	ClearlyLabeled	StatusRequired
SZ152 DECK WATER VALVE MECHANICAL	FIELD-SZ152-VA1025	M	Mechanical, Stored	Y	OFF
SZ152 SIZER TRAVEL MOTOR 1	SR151-MCC01-SZ152-EM003	LV	Electrical, Mechanical	Y	OFF
SZ152 SIZER TRAVEL MOTOR 2	SR151-MCC01-SZ152-EM004	LV	Electrical, Mechanical	Y	OFF
SZ152 GEARBOX COOLER FAN 1	SR151-MCC01-SZ152-EM005	LV	Electrical, Mechanical	Y	OFF
SZ152 GEARBOX COOLER FAN 2	SR151-MCC01-SZ152-EM006	LV	Electrical, Mechanical	Y	OFF
SZ152 OIL CIRCULATION PUMP 1	SR151-MCC01-SZ152-EM007	LV	Electrical, Hydraulic	Y	OFF
SZ152 OIL CIRCULATION PUMP 2	SR151-MCC01-SZ152-EM008	LV	Electrical, Hydraulic	Y	OFF
SZ152 LUBE SYSTEM	SR151-MCC01-SZ152-EM009	LV	Electrical, Hydraulic	Y	OFF
SZ152 DRIVE 1 & 2 ANTI-CONDENSATION HEATER	SR152-SWB01-A05-SZ152-FB91	LV	Electrical, Thermal	Y	OFF
SZ152 6.6KV CB EARTH SWITCH	SR152-SWB01-SZ152-A05-E/SW	HV	Electrical	Y	CLOSED
SZ152 6.6KV CB RACKING CONTROL MCB	SR152-SWB01-SZ152-A05-FB70	LV	Electrical, Mechanical	Y	OFF
SZ152 6.6KV CB DRIVE FWD	SR152-SWB01-SZ152-A05-FWD	HV	Electrical, Mechanical	Y	RACKED OUT
SZ152 6.6KV CB EARTH SWITCH	SR152-SWB01-SZ152-A06-E/SW	HV	Electrical	Y	CLOSED
SZ152 6.6KV CB RACKING CONTROL MCB	SR152-SWB01-SZ152-A06-FB70	LV	Electrical, Mechanical	Y	OFF
SZ152 6.6KV DRIVE REV	SR152-SWB01-SZ152-A06-REV	HV	Electrical, Mechanical	Y	RACKED OUT
SZ152 6.6KV CB DRIVE REV (BUS SHUTTER)	SR152-SWB01-SZ152-A06-REV (SHUTTER)	HV	Electrical	N	CLOSED
SZ152 6.6KV CB RACKING CONTROL ISOLATOR	SR152-SWB02-SZ152-A05-FB70-ISOLATOR	LV	Electrical	Y	OFF
SZ152 6.6KV CB RACKING CONTROL ISOLATOR	SR152-SWB02-SZ152-A06-FB70-ISOLATOR	LV	Electrical	Y	OFF
SZ152 6.6KV CB DRIVE FWD (BUS SHUTTER)	SR152-SWB01-SZ152-A05-FWD (SHUTTER)	LV	Electrical	N	CLOSED

19 0
Add >
Add ALL >>
< Remove
<< Remove All

6. Click OK to create this statement

New Isolation Statement

ID: SY13CFP01-15-000001
Plant Area: FMS-ISM-CRUSHING-HUB
Description: SHUTDOWN WORKS - SZ152
Lock Key: 1
Status: DRAFT

Isolation Condition / Information:

FILTERS
Choose Filter: SHOW ALL AVAILABLE ISOLATION POINTS (NO DUPLICATE) ▾
sz152 Search by Description

Available Points

EquipmentName	IsolationPoint	IsolationLevel	EnergySource	ClearlyLabeled	StatusRequired
SZ152 DECK WATER VALVE MECHANICAL	FIELD-SZ152-VA1025	M	Mechanical, Stored	Y	OFF
SZ152 6.6KV CB EARTH SWITCH	SR152-SWB01-SZ152-A05-E/SW	HV	Electrical	Y	CLOSED
SZ152 6.6KV CB RACKING CONTROL MCB	SR152-SWB01-SZ152-A05-FB70	LV	Electrical, Mechanical	Y	OFF
SZ152 6.6KV CB DRIVE FWD	SR152-SWB01-SZ152-A05-FWD	HV	Electrical, Mechanical	Y	RACKED OUT
SZ152 6.6KV CB EARTH SWITCH	SR152-SWB01-SZ152-A06-E/SW	HV	Electrical	Y	CLOSED
SZ152 6.6KV CB RACKING CONTROL MCB	SR152-SWB01-SZ152-A06-FB70	LV	Electrical, Mechanical	Y	OFF
SZ152 6.6KV DRIVE REV	SR152-SWB01-SZ152-A06-REV	HV	Electrical, Mechanical	Y	RACKED OUT
SZ152 6.6KV CB DRIVE REV (BUS SHUTTER)	SR152-SWB01-SZ152-A06-REV (SHUTTER)	HV	Electrical	N	CLOSED
SZ152 6.6KV CB RACKING CONTROL ISOLATOR	SR152-SWB02-SZ152-A05-FB70-ISOLATOR	LV	Electrical	Y	OFF
SZ152 6.6KV CB RACKING CONTROL ISOLATOR	SR152-SWB02-SZ152-A06-FB70-ISOLATOR	LV	Electrical	Y	OFF
SZ152 6.6KV CB DRIVE FWD (BUS SHUTTER)	SR152-SWB01-SZ152-A05-FWD (SHUTTER)	LV	Electrical	N	CLOSED

11 8
Add >
Add ALL >>
< Remove
<< Remove All

Selected Parts

EquipmentName	IsolationPoint	IsolationLevel
SZ152 DRIVE 1 & 2 ANTI-CONDENSATION HEATER	SR152-SWB01-A05-SZ152-FB91	LV
SZ152 LUBE SYSTEM	SR151-MCC01-SZ152-EM009	LV
SZ152 OIL CIRCULATION PUMP 2	SR151-MCC01-SZ152-EM008	LV
SZ152 OIL CIRCULATION PUMP 1	SR151-MCC01-SZ152-EM007	LV
SZ152 GEARBOX COOLER FAN 2	SR151-MCC01-SZ152-EM006	LV
SZ152 GEARBOX COOLER FAN 1	SR151-MCC01-SZ152-EM005	LV
SZ152 SIZER TRAVEL MOTOR 2	SR151-MCC01-SZ152-EM004	LV
SZ152 SIZER TRAVEL MOTOR 1	SR151-MCC01-SZ152-EM003	LV

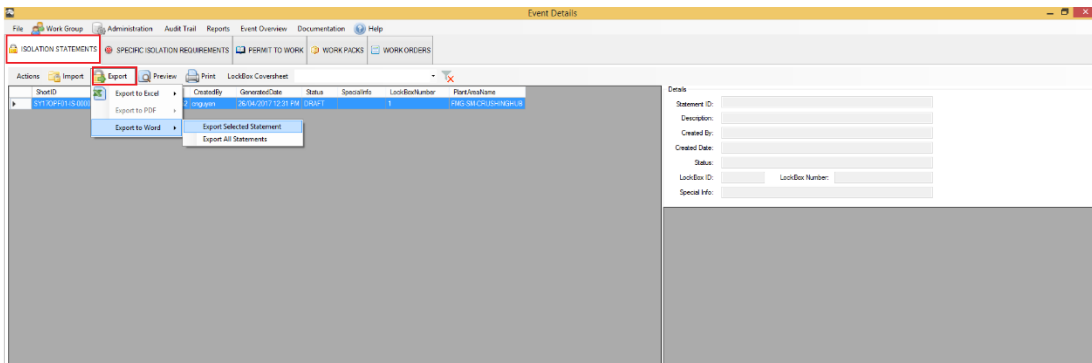
OK Cancel

End of Procedure

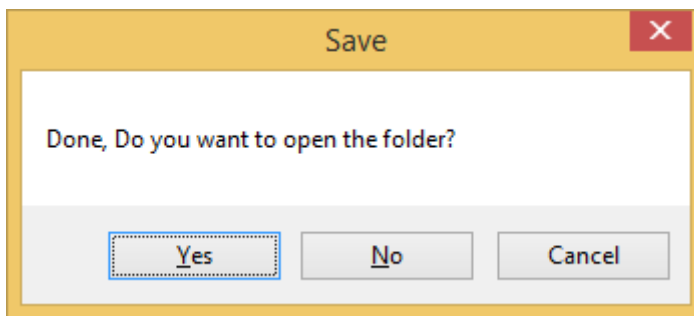
5.4.2 Print Isolation Statement

The best way to print an Isolation Statement is to export it to Microsoft Word Document format then print:

5. On the Event Details Page. Select **ISOLATION STATEMENT** tab.
6. Click on **EXPORT > Export to Word > Export Selected Statement**



7. Choose the destination folder then click on **Save** to proceed



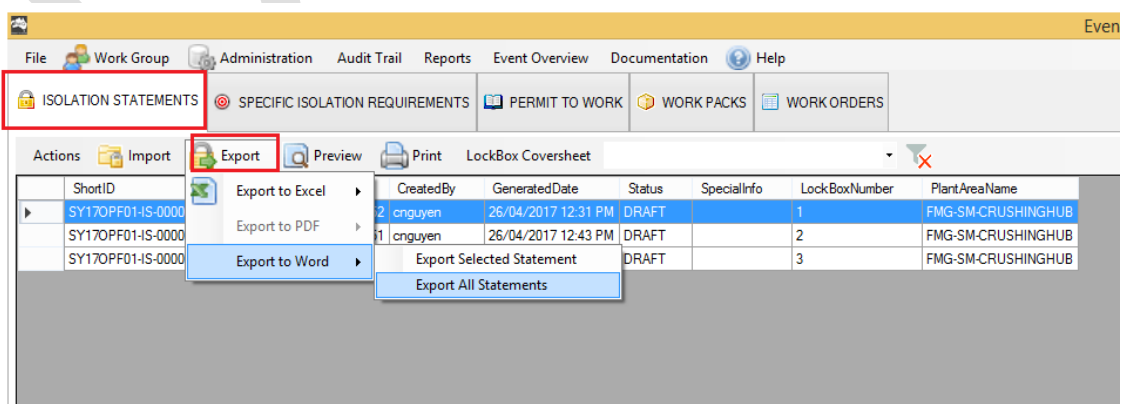
8. Click **Yes** to view the file.

End of Procedure

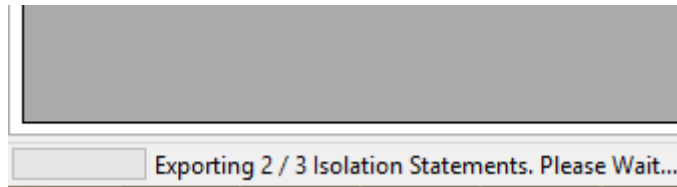
5.4.3 Print Multiple Statements

To print multiple isolation statements

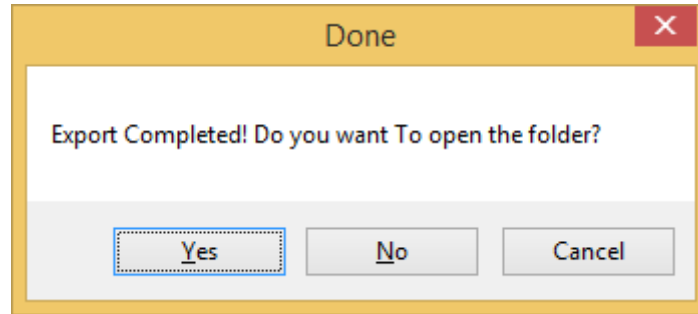
10. Select **ISOLATION STATEMENT** tab
11. Click on **Export > Export to Word > Export All Statements**



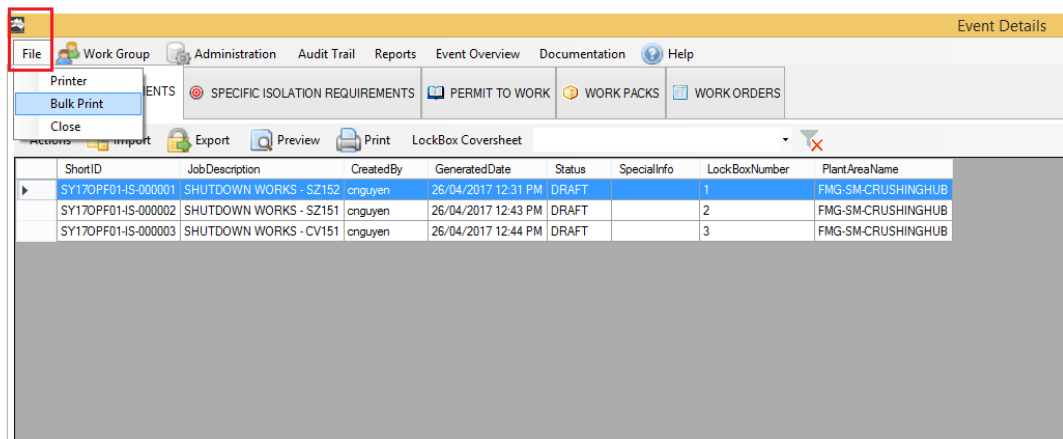
12. Navigate to the folder then click on **Save**. **Note:** this progress will take sometime to generate all statement. The status is displayed on the left bottom corner of the screen:



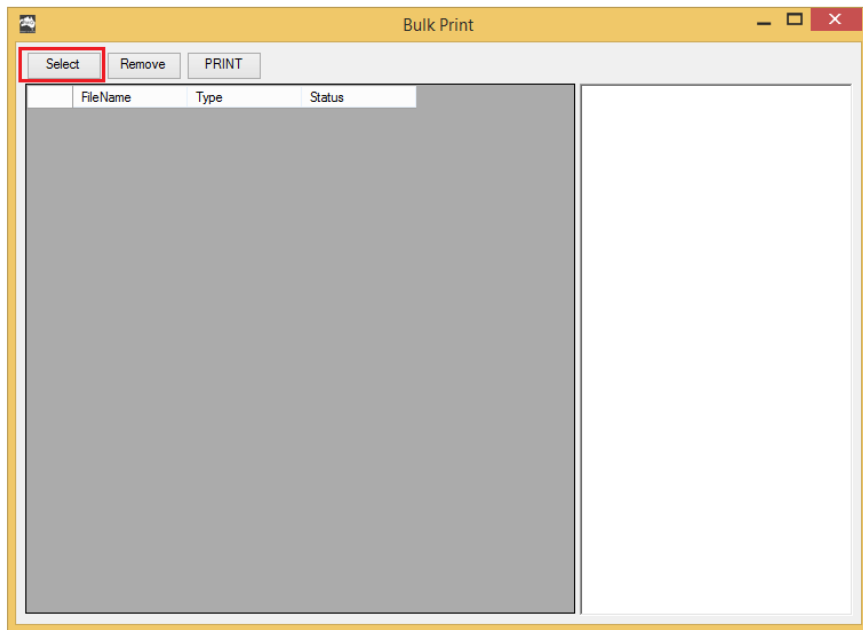
13. Once export is completed. Click **Yes** to view your files or **No** to close.



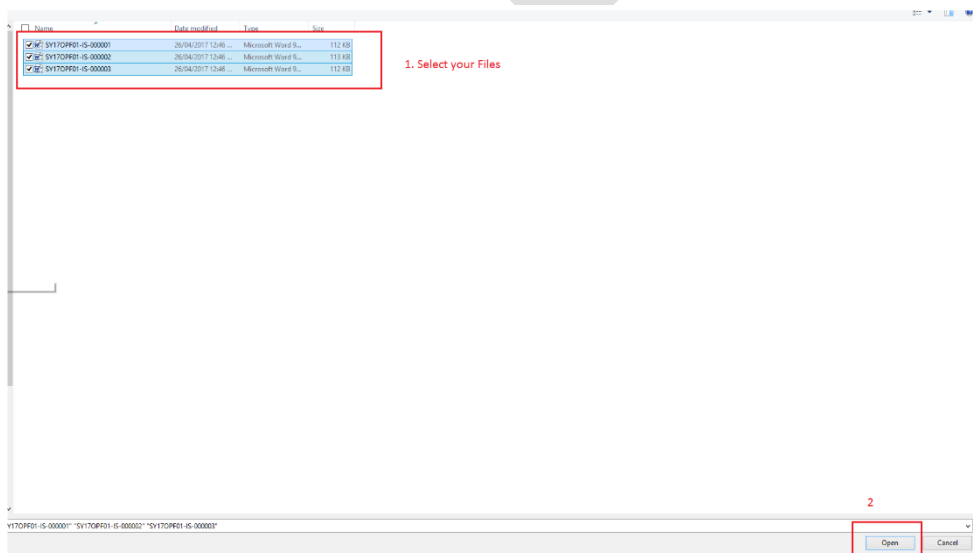
14. To Print Multiple statement. Select **File > Bulk Print**



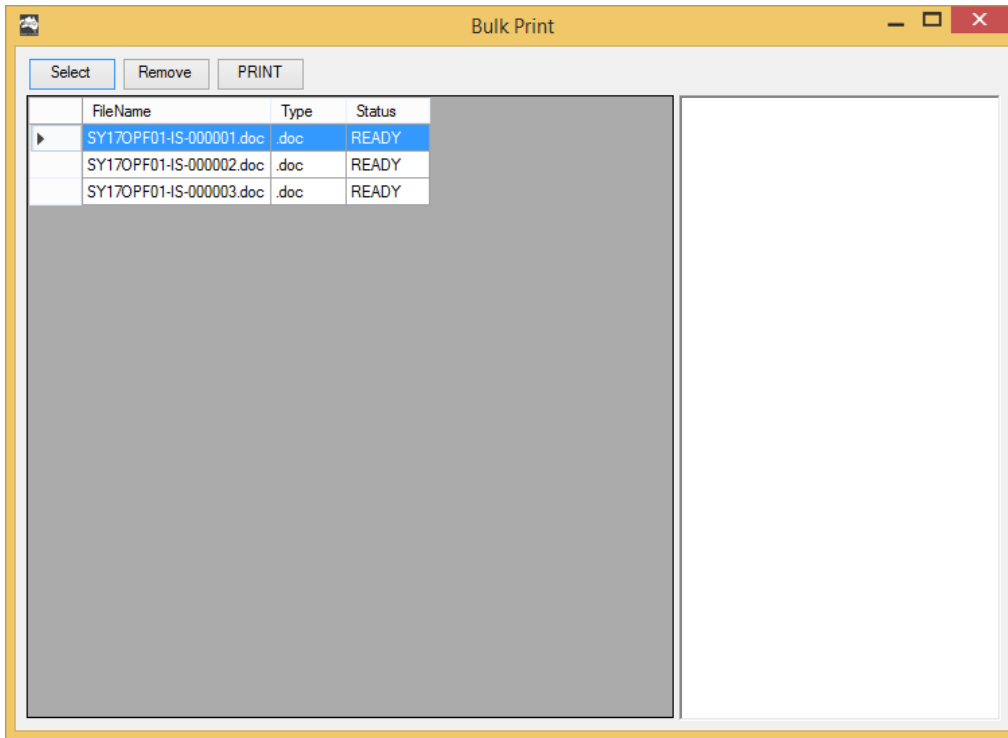
15. A new dialog will popup. Click on **Select**



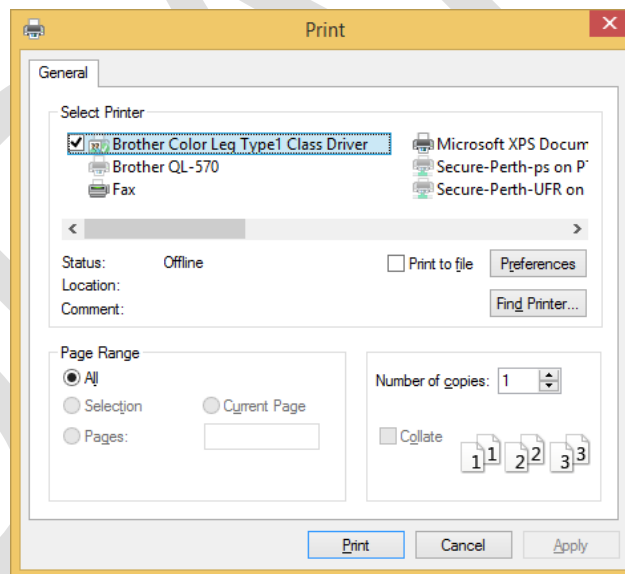
16. Select the files you wish to print. Then click on **Open** to proceed

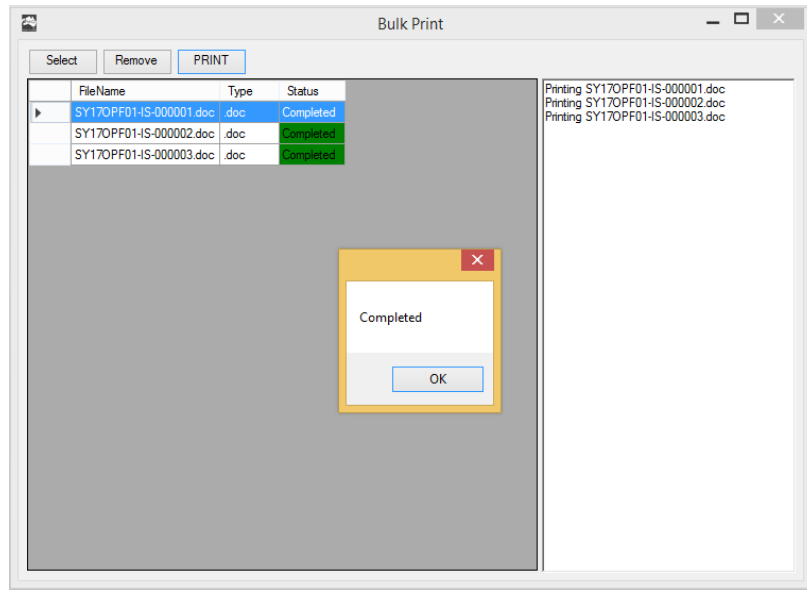


17. Your selected files are now added to the list. Click **Print** to proceed



18. Select a printer then **Print**



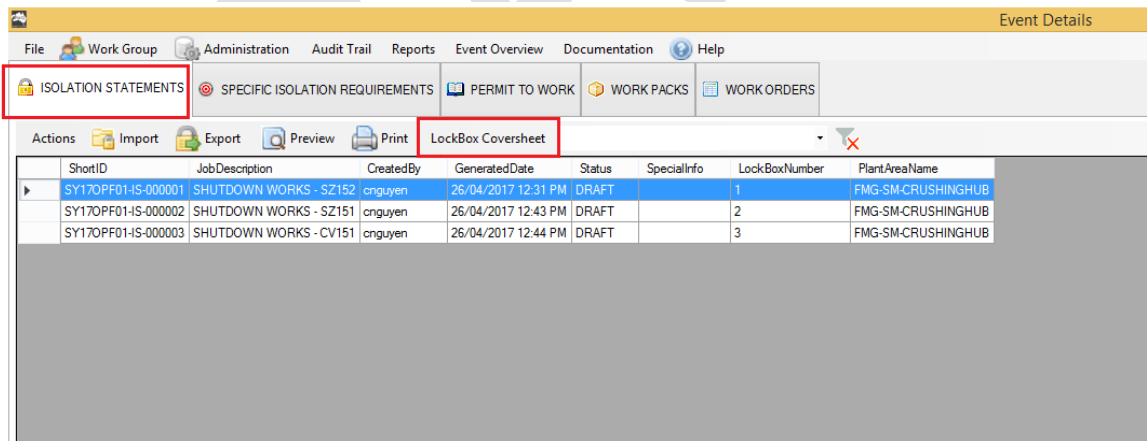


End of Procedure

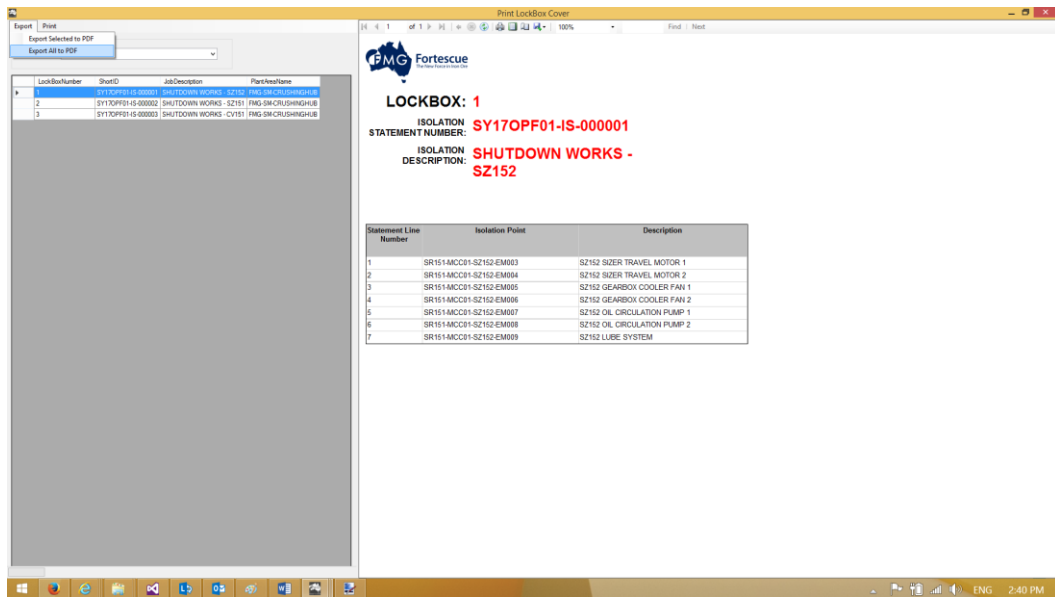
5.4.4 Print Lock Box Cover

Lock Box Coversheets may be printed from the program:

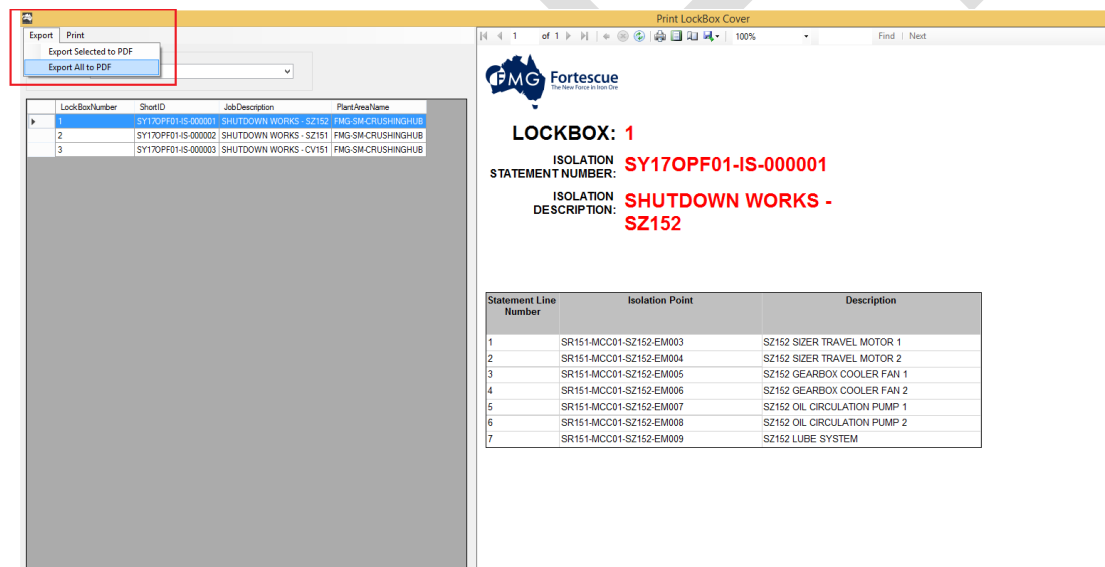
1. From the **Event Details** Page, Select **Isolation Statements** tab > **Lockbox Coversheet**



2. New window will popup



3. Select the screen cover you would like to print or save them all to PDF File then Print:



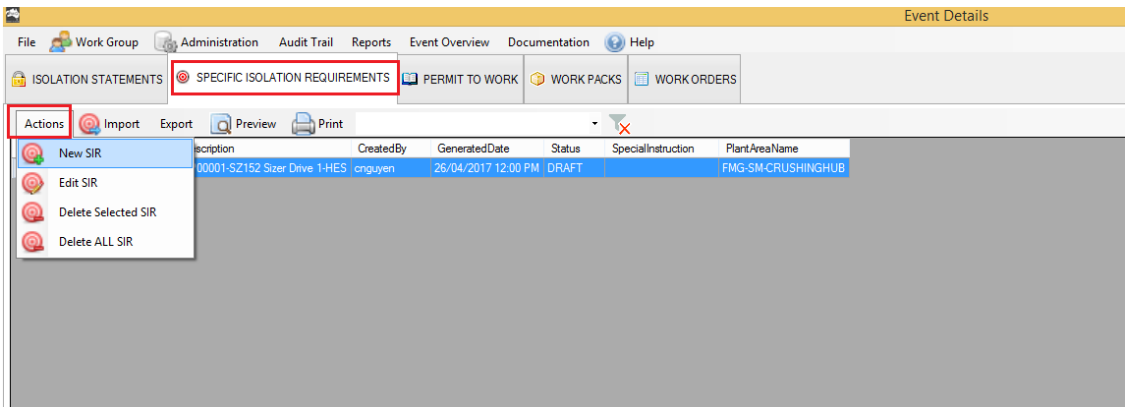
End of Procedure

5.5 SPECIFIC ISOLATION REQUIREMENTS

5.5.1 Create new SIR

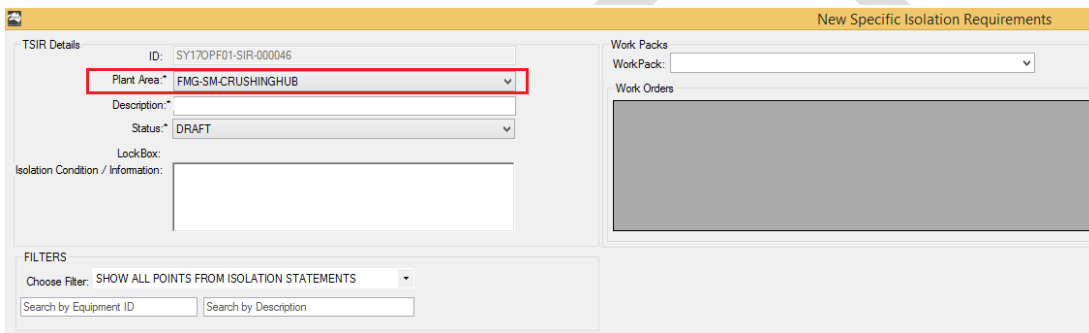
To create a new SIR from a WorkPack, please refer to [Chapter 5.3.2](#)

1. From The **Event Details**. Select **SPECIFIC ISOLATION REQUIREMENTS** tab > **Actions > New SIR**

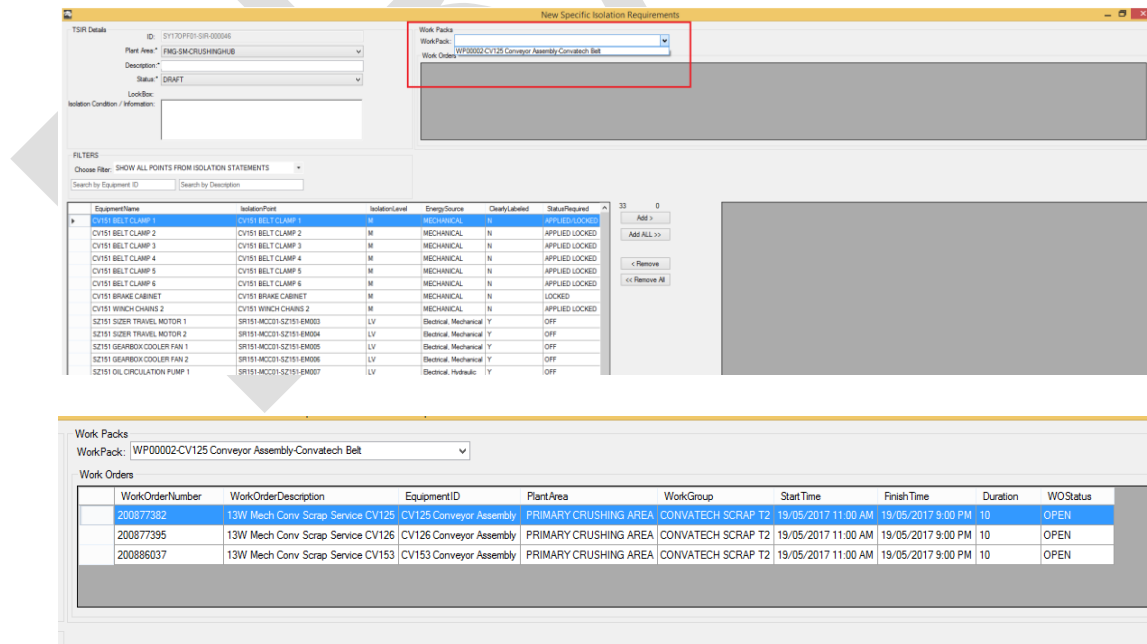


Please note: you will need to create a new Work Pack before creating new SIR.

2. Select the Plant Area from the list



3. Select the available work pack for this SIR. This will populate all the work orders details belong to the work pack



4. Select the Isolation Points for the SIR

New Specific Isolation Requirements

TSIR Details

ID: SY170PF01-SIR-000046

Plant Area: FMG-SM-CRUSHINGHUB

Description: WP00002-CV125 Conveyor Assembly-Convatech Belt

Status: DRAFT

Lock Box:

Isolation Condition / Information:

Work Packs

WorkPack: WP00002-CV125 Conveyor Assembly-Convatech Belt

Work Orders

WorkOrderNumber	WorkOrderDescription	EquipmentID
200877382	13W Mech Conv Scrap Service CV125	CV125 Conveyor Assembl
200877395	13W Mech Conv Scrap Service CV126	CV126 Conveyor Assembl
200886037	13W Mech Conv Scrap Service CV153	CV153 Conveyor Assembl

FILTERS

Choose Filter: SHOW ALL AVAILABLE POINTS

1 Search by Description

EquipmentName	IsolationPoint	IsolationLevel	EnergySource	ClearlyLabeled	StatusRequired	Verification
CV125 BELT CLAMPS 1	CV125 BELT CLAMPS 1	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 BELT CLAMPS 2	CV125 BELT CLAMPS 2	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 BELT CLAMPS 3	CV125 BELT CLAMPS 3	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 BELT CLAMPS 4	CV125 BELT CLAMPS 4	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 BELT CLAMPS 5	CV125 BELT CLAMPS 5	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 BELT CLAMPS 6	CV125 BELT CLAMPS 6	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 WINCH CHAINS 1	CV125 WINCH CHAINS 1	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 WINCH CHAINS 2	CV125 WINCH CHAINS 2	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 WINCH CHAINS 3	CV125 WINCH CHAINS 3	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 WINCH CHAINS 4	CV125 WINCH CHAINS 4	M	MECHANICAL	N	APPLIED LOCKED	Visual
CV125 BULK WATER ADDITION SPRAY	FIELD-????????????????	M	Mechanical, Stored		CLOSED	Test / Try and r
CV125 FIELD WINCH ISOLATOR	FIELD-CV125-WH01-CPB1001	LV	Electrical, Gravitational	Y	OFF	Test / Try
CV125 VSD 1600A ACB	SR706-CV125-VSD01-ACB	LV	Electrical, Mechanical	Y	RACKED OUT	Completed HV
CV125 VSD AUX SWITCH	SR706-CV125-VSD01-AUX SWITCH	LV	Electrical	Y	OFF	Completed HV
CV125 WEBBA CHUTE COMPRESSOR	SR706-MCC01-CV125-CH01-CP01	LV/M	Electrical, Mechanical	Y	OFF	Test / Try
CV125 DRIVE MOTOR HEATER	SR706-MCC01-CV125EM01-HE01	LV	Electrical, Thermal	Y	OFF	Test / Try
CV125 GEARBOX PUMP&FAN COMBINATION	SR706-MCC01-CV125GB01-DR01	LV	Electrical, Hydraulic	Y	OFF	Test / Try

17 2 0

Add >

Add ALL >>

< Remove

<< Remove All

5. Click **OK** to proceed.

End of Procedure

5.6 PERMIT TO WORK

5.6.1 Create New Permit to Work

1. From the **Event Details**. Select **PERMIT TO WORK** tab > **Actions** > **New Permit**

Event Details

File Work Group Administration Audit Trail Reports Event Overview Documentation Help

ISOLATION STATEMENTS SPECIFIC ISOLATION REQUIREMENTS **PERMIT TO WORK** WORK PACKS WORK ORDERS

Actions Preview Export Print Send to Outlook

- New Permit
- Edit Permit
- Delete Selected Permit
- DELETE ALL Permits

PTWShortID	PTWExclusiveControl	PTWABEC	PermitHolder	PermitHolderDets	Permit Start Time	PermitEndTime	Permit Status	PermitCres
S SY170PF01-PTW-000043			Cong	Tetra Radio CH219	26/04/2017 12:01 PM	26/05/2017 12:01 PM	DRAFT	onguyen

2. A new Permit to Work Form will pop up

Permit Details

Permit Number: SY170PF01-PTW-000044

Description of work to be completed:

Plant Area:

Permit Status: DRAFT

Exclusive Control Required

Affected by Exclusive Control

Lock Box Number:

Permit Start Time: 26/04/2017 15:06

Permit Expiry Time: 26/05/2017 15:06

Permit Holder:

Permit Holder Contact Details:

ShortID	Description	CreatedBy	GeneratedDate	Status	SpecialInstruction
---------	-------------	-----------	---------------	--------	--------------------

Buttons: Add, Remove, OK, Cancel

3. Click **Add**

Permit Details

Permit Number: SY170PF01-PTW-000044

Description of work to be completed:

Plant Area:

Permit Status: DRAFT

Exclusive Control Required

Affected by Exclusive Control

Lock Box Number:

Permit Start Time: 26/04/2017 15:06

Permit Expiry Time: 26/05/2017 15:06

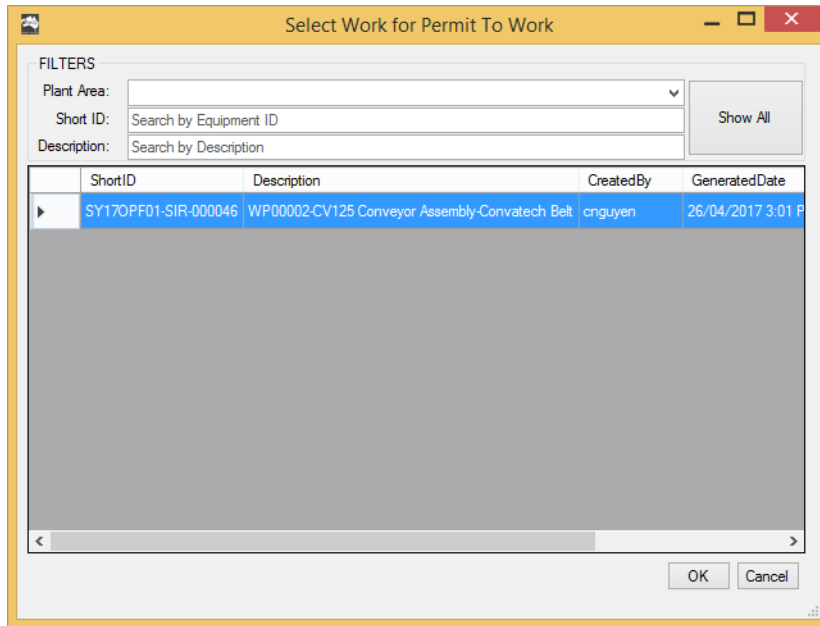
Permit Holder:

Permit Holder Contact Details:

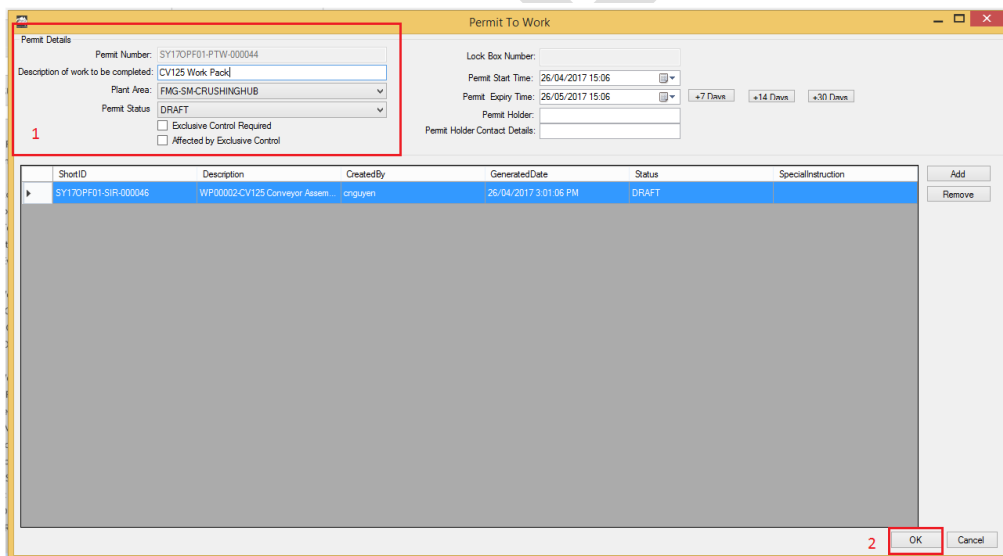
ShortID	Description	CreatedBy	GeneratedDate	Status	SpecialInstruction
---------	-------------	-----------	---------------	--------	--------------------

Buttons: Add, Remove, OK, Cancel

4. Select a SIR. Then click **OK**



5. Fill in the Permit Details Section. Click **OK** to proceed



End of Procedure

5.7 REPORTS

5.7.1 Isolation Matrix

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartTime	FinishTime	Duration	WOStatus
1.23123e+008	New work order 1	New work order 1	SCALPING SCREENING AREA	Team 1	15/05/2017 11:00 AM	15/05/2017 5:00 AM	18	OPEN
100492243	BF273-CH290 Install Side Impact Plates	BF273-CH290 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PILBARA ACCESS T1	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100516905	BN151-Install Rail Inlets	BN151 Rom Bin	PRIMARY CRUSHING AREA	TAS ROPE ACCESS T1	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100538576	RMU14 12Monthly ISLCable way Inspection	33KV 630A Incoming Isolator from RMU15/16	GENERAL FIRE/TAILO AREA	NPI HV T1	19/05/2017 8:00 AM	19/05/2017 10:00 AM	2	OPEN
100549843	CRC363-Install Drain Pipe Protection	CRC363 Tertiary Crusher MP1250	SECONDARY & TERTIARY CRUSHING AREA	PILBARA ACCESS T3	19/05/2017 8:00 PM	20/05/2017 2:00 AM	6	OPEN
100552621	BF363-Shuttle Drive Upgrade	BF363 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100552740	BF364-Shuttle Drive Upgrade	BF364 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 8:00 AM	7	OPEN
100556894	BF362-Shuttle Drive Upgrade	BF362 Belt Feeder Drive 2	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 7:00 AM	19/05/2017 7:00 AM	0	OPEN
100566365	SZ151-CH154 Discharge Chute-Replace Line	SZ151-CH154 P# Sizer Discharge Chute	PRIMARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 1:00 PM	8	OPEN
100576050	CRC363-CH378-Install Crusher Isolation G	CRC363-CH378 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100576052	CRC364-CH379-Install Crusher Isolation G	CRC364-CH379 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T3	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100592945	CRC363-Replace Lube Pump 2	CRC363-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 10:30 AM	19/05/2017 11:30 PM	13	OPEN
100593305	BF272-CH274 Repair Damaged Parent Metal	BF272-CH274 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PTWES HP T1	15/05/2017 11:00 AM	15/05/2017 11:00 AM	0	OPEN
100600604	BF364-Install Shuttle In-position Proxy	BF364 Feeder Elect Instr Control	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 3:00 PM	4	OPEN
100608020	AF151 - P-reset Relief Valve Block	AF151-HY01 Feeder Hydraulic Power Pack	PRIMARY CRUSHING AREA	CUST FP HYDRAULICS T1	21/05/2017 2:00 AM	21/05/2017 6:00 AM	4	OPEN
100612714	CV361-MG01 Repair Twisted Catenary	CV361-MG01 Conveyor Magnet Assembly	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 6:30 AM	19/05/2017 10:30 PM	16	OPEN
100613165	BN361-Replace Lower Bin Side Walls	BN361 Feed Bin Assembly	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T3	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100613551	CRC363 - Replace Lube Pump 1	CRC363-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 2:00 PM	13	OPEN
100613826	Replace Diverter Valve CRC361	CRC361-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	CUST FP HYDRAULICS T1	19/05/2017 1:00 AM	19/05/2017 4:00 AM	3	OPEN
100613917	CRC361-LU01 - Replace Worn Drain Pipe	CRC361-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	PILBARA ACCESS T3	21/05/2017 3:30 PM	22/05/2017 12:30 AM	9	OPEN
100618070	SZ151-Replace labels for fluid couplings	SZ151 Primary Sizer	PRIMARY CRUSHING AREA	CUST FP LUBE T2	20/05/2017 11:30 PM	21/05/2017 2:00 AM	2	OPEN
100618071	SZ152-Make up labels for fluid couplings	SZ152 Secondary Sizer	PRIMARY CRUSHING AREA	CUST FP LUBE T2	22/05/2017 7:00 AM	22/05/2017 9:30 AM	2	OPEN
100618370	RF361-Renovation / Adjust Deflector	RF361-CH368 Belt Feeder Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:30 PM	20/05/2017 4:30 AM	15	OPEN

DESCRIPTION	SHUTDOWN WORKS - SZ152	SHUTDOWN WORKS - SZ151	SHUTDOWN WORKS - CV151
LOCKBOX	LB-1	LB-2	LB-3
PLANT AREA	F#G-SM-CRUSHINGHUB	F#G-SM-CRUSHINGHUB	F#G-SM-CRUSHINGHUB
SPECIAL INFO	SZ152 SIZER TRAVEL MOTOR 1	DRIVE 1 & 2 ANTI-CONDENSATION HEATER	CV151 BELT CLAMP 1
	SZ152 SIZER TRAVEL MOTOR 2	SZ151 6 6KV CB RACKING CONTROL ISOLATOR	CV151 BELT CLAMP 2
	SZ152 GEARBOX COOLER FAN 1	SZ151 6 6KV CB DRIVE FWD	CV151 BELT CLAMP 3
	SZ152 GEARBOX COOLER FAN 2	SZ151 6 6KV CB DRIVE FWD (BUS SHUTTER)	CV151 BELT CLAMP 4
	SZ152 OIL CIRCULATION PUMP 1	SZ151 6 6KV CB DRIVE REV (BUS SHUTTER)	CV151 BELT CLAMP 5
	SZ152 OIL CIRCULATION PUMP 2	SZ151 6 6KV CB EARTH SWITCH	CV151 BELT CLAMP 6
	SZ152 LUBE SYSTEM	SZ151 6 6KV CB EARTH SWITCH	CV151 BRAKE CABINET
		SZ151 6 6KV CB RACKING CONTROL ISOLATOR	CV151 WINCH CHAINS 2
		SZ151 6 6KV CB RACKING CONTROL MCB	
		SZ151 6 6KV CB RACKING CONTROL MCB	
		SZ151 6 6KV DRIVE REV	
		SZ151 GEARBOX COOLER FAN 1	
		SZ151 GEARBOX COOLER FAN 2	
		SZ151 LUBE SYSTEM	
		SZ151 OIL CIRCULATION PUMP 1	
		SZ151 OIL CIRCULATION PUMP 2	
		SZ151 SIZER TRAVEL MOTOR 1	
		SZ151 SIZER TRAVEL MOTOR 2	

5.7.2 Permit Matrix

The screenshot shows the 'Event Details' page with a navigation menu at the top. The 'Reports' menu is open, and 'Permit Matrix' is highlighted. Below the menu is a table of work orders.

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartTime	FinishTime	Duration	WOStatus
1.23123e+008	New work Order 1	New work Order 1	SCALPING SCREENING AREA	Team 1	15/05/2017 11:00 AM	16/05/2017 5:00 AM	18	OPEN
100492243	BF273-CH290 Install Side Impact Plates	BF273-CH290 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PILBARA ACCESS T1	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100516905	BN151-Install Rail Inserts	BN151 Rom Bin	PRIMARY CRUSHING AREA	TAS ROPE ACCESS T1	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100538576	RMU14 12Monthly ISLCable way Inspection	33KV 630A Incomer Isolator from RMU15/16	GENERAL FIRETAIL AREA	NPI HV T1	19/05/2017 8:00 AM	19/05/2017 10:00 AM	2	OPEN
100549943	CRC363 Install Drain Pipe Protection	CRC363 Tertiary Crusher MP1250	SECONDARY & TERTIARY CRUSHING AREA	PILBARA ACCESS T3	19/05/2017 8:00 PM	20/05/2017 2:00 AM	6	OPEN
100552681	BF363-Shuttle Drive Upgrade	BF363 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100552740	BF364-Shuttle Drive Upgrade	BF364 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 8:00 AM	7	OPEN
100558894	BF362-Shuttle Drive Upgrade	BF362 Belt Feeder Drive 2	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 7:00 AM	19/05/2017 7:00 AM	0	OPEN
100568365	SZ151-CH154 Discharge Chute-Replace Line	SZ151-CH154 Pi Sizer Discharge Chute	PRIMARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 7:00 PM	8	OPEN
100576050	CRC363-CH378-Install Crusher Isolation G	CRC363-CH378 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100576052	CRC364-CH379-Install Crusher Isolation G	CRC364-CH379 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T3	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100592945	CRC363 Replace Lube Pump 2	CRC363-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 10:30 AM	19/05/2017 11:30 PM	13	OPEN
100593305	BF272-CH274 Repair Damaged Parent Metal	BF272-CH274 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PTWES HP T1	15/05/2017 11:00 AM	15/05/2017 11:00 AM	0	OPEN
100600604	BF364-Install Shuttle Inposition Proxy	BF364 Feeder Elect Instr Control	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 3:00 PM	4	OPEN
100608020	AF151 - Preest Relief Valve Block	AF151-HY01 Feeder Hydraulic Power Pack	PRIMARY CRUSHING AREA	CUST FP HYDRAULICS T1	21/05/2017 2:00 AM	21/05/2017 6:00 AM	4	OPEN
100612714	CV361-MG01 Repair Twisted Catenary	CV361-MG01 Conveyor Magnet Assembly	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 6:30 AM	19/05/2017 10:30 PM	16	OPEN
100613165	BN361-Replace Lower Bin Side Walls	BN361 Feed Bin Assembly	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T3	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100613551	CRC363 - Replace Lube Pump 1	CRC363-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 2:00 PM	13	OPEN
100613826	Replace Diverter Valve CRC361	CRC361-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	CUST FP HYDRAULICS T1	19/05/2017 1:00 AM	19/05/2017 4:00 AM	3	OPEN
100613917	CRC361/LU01 - Replace Worn Drain Pipe	CRC361-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	PILBARA ACCESS T3	21/05/2017 3:30 PM	22/05/2017 12:30 AM	9	OPEN

The screenshot shows the 'Permit Matrix' page with a table of permit details. The table has columns for Plant Area, Permit Number, Equipment, SIR, Isolation Statement Number, Lock Box Number, Work Group, Job Scope, Work Order Number, Permit Holder, Additional Information, and Permit Status.

Plant Area	Permit Number	Equipment	SIR	Isolation Statement Number	Lock Box Number	Work Group	Job Scope	Work Order Number	Permit Holder	Additional Information	Permit Status
FMS-SM CRUSHINGHUB	SY170FF01-FW-000043	SZ152	SY170FF01-SIR-000045	SY170FF01-IS-000003	1	HES	Check HV Motor Terminal Connections [OPEN] Check HV Motor Terminal Connections [OPEN]	100672192 100672196	Comp		DRAFT
FMS-SM CRUSHINGHUB	SY170FF01-FW-000044	CV125	SY170FF01-SIR-000046	N/A	N/A	Convault Belt	13W Mech Conv Scrap Service CV125 [OPEN] 13W Mech Conv Scrap Service CV126 [OPEN] 13W Mech Conv Scrap Service CV153 [OPEN]	200877382 200877386 200886337			DRAFT

5.7.3 General Reports

1. From the Event Details page. Click Reports > Generate Reports

The screenshot shows the 'Event Details' page with a navigation menu at the top. The 'Reports' menu is open, and 'Generate Reports' is highlighted. Below the menu is a table of work orders.

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartTime	FinishTime	Duration	WOStatus
1.23123e+008	New work Order 1	New work Order 1	SCALPING SCREENING AREA	Team 1	15/05/2017 11:00 AM	16/05/2017 5:00 AM	18	OPEN
100492243	BF273-CH290 Install Side Impact Plates	BF273-CH290 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PILBARA ACCESS T1	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100516905	BN151-Install Rail Inserts	BN151 Rom Bin	PRIMARY CRUSHING AREA	TAS ROPE ACCESS T1	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100538576	RMU14 12Monthly ISLCable way Inspection	33KV 630A Incomer Isolator from RMU15/16	GENERAL FIRETAIL AREA	NPI HV T1	19/05/2017 8:00 AM	19/05/2017 10:00 AM	2	OPEN
100549943	CRC363 Install Drain Pipe Protection	CRC363 Tertiary Crusher MP1250	SECONDARY & TERTIARY CRUSHING AREA	PILBARA ACCESS T3	19/05/2017 8:00 PM	20/05/2017 2:00 AM	6	OPEN
100552681	BF363-Shuttle Drive Upgrade	BF363 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100552740	BF364-Shuttle Drive Upgrade	BF364 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 8:00 AM	7	OPEN
100558894	BF362-Shuttle Drive Upgrade	BF362 Belt Feeder Drive 2	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 7:00 AM	19/05/2017 7:00 AM	0	OPEN
100568365	SZ151-CH154 Discharge Chute-Replace Line	SZ151-CH154 Pi Sizer Discharge Chute	PRIMARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 7:00 PM	8	OPEN
100576050	CRC363-CH378-Install Crusher Isolation G	CRC363-CH378 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100576052	CRC364-CH379-Install Crusher Isolation G	CRC364-CH379 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T3	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100592945	CRC363 Replace Lube Pump 2	CRC363-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 10:30 AM	19/05/2017 11:30 PM	13	OPEN
100593305	BF272-CH274 Repair Damaged Parent Metal	BF272-CH274 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PTWES HP T1	15/05/2017 11:00 AM	15/05/2017 11:00 AM	0	OPEN
100600604	BF364-Install Shuttle Inposition Proxy	BF364 Feeder Elect Instr Control	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 3:00 PM	4	OPEN
100608020	AF151 - Preest Relief Valve Block	AF151-HY01 Feeder Hydraulic Power Pack	PRIMARY CRUSHING AREA	CUST FP HYDRAULICS T1	21/05/2017 2:00 AM	21/05/2017 6:00 AM	4	OPEN
100612714	CV361-MG01 Repair Twisted Catenary	CV361-MG01 Conveyor Magnet Assembly	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 6:30 AM	19/05/2017 10:30 PM	16	OPEN
100613165	BN361-Replace Lower Bin Side Walls	BN361 Feed Bin Assembly	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T3	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100613551	CRC363 - Replace Lube Pump 1	CRC363-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 2:00 PM	13	OPEN
100613826	Replace Diverter Valve CRC361	CRC361-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	CUST FP HYDRAULICS T1	19/05/2017 1:00 AM	19/05/2017 4:00 AM	3	OPEN
100613917	CRC361/LU01 - Replace Worn Drain Pipe	CRC361-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	PILBARA ACCESS T3	21/05/2017 3:30 PM	22/05/2017 12:30 AM	9	OPEN
100618070	SZ151-Replace labels for fluid couplings	SZ151 Primary Sizer	PRIMARY CRUSHING AREA	CUST FP LUBE T2	20/05/2017 11:30 PM	21/05/2017 2:00 AM	2	OPEN

2. Select the type of report you want to view by selecting from the drop down list

Print Work Order Barcodes

FILTER
 SELECT TYPE: Work Orders
 STATUS: OPEN

PRINT PREVIEW

WorkOrderNumber	WorkOrderDescription	EquipmentID	PlantArea	WorkGroup	StartTime	FinishTime	Duration	WOStatus
123123e-008	New work Order 1	New work Order 1	SCALPING SCREENING AREA	Team 1	15/05/2017 11:00 AM	16/05/2017 5:00 AM	18	OPEN
100492243	BF273-CH290 Install Side Impact Plates	BF273-CH290 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PILBARA ACCESS T1	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100516905	BN151-Install Rail Inserts	BN151 Rom Bin	PRIMARY CRUSHING AREA	TAS ROPE ACCESS T1	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100538576	RMU14 12Monthly ISLCable way Inspection	33KV 630A Incomer Isolator from RMU15/16	GENERAL FIRE/TAI AREA	NPI HV T1	19/05/2017 8:00 AM	19/05/2017 10:00 AM	2	OPEN
10054943	CRC363 Install Drain Pipe Protection	CRC363 Tertiary Crusher MP1250	SECONDARY & TERTIARY CRUSHING AREA	PILBARA ACCESS T3	19/05/2017 8:00 PM	20/05/2017 2:00 AM	6	OPEN
100552681	BF363-Shuttle Drive Upgrade	BF363 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100552740	BF364-Shuttle Drive Upgrade	BF364 Belt Feeder	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 8:00 AM	7	OPEN
100558894	BF362-Shuttle Drive Upgrade	BF362 Belt Feeder Drive 2	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 7:00 AM	19/05/2017 7:00 AM	0	OPEN
100568365	SZ151-CH154 Discharge Chute-Replace Line	SZ151-CH154 Pi Sizer Discharge Chute	PRIMARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 7:00 PM	8	OPEN
100576050	CRC363-CH378-Install Crusher Isolation G	CRC363-CH378 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T2	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100576052	CRC364-CH379-Install Crusher Isolation G	CRC364-CH379 Crusher Discharge Chute	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T3	15/05/2017 11:00 AM	15/05/2017 1:00 PM	2	OPEN
100592945	CRC363 Replace Lube Pump 2	CRC363-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 10:30 AM	19/05/2017 11:30 AM	13	OPEN
100593305	BF272-CH274 Repair Damaged Parent Metal	BF272-CH274 Belt Feeder Discharge Chute	SCALPING SCREENING AREA	PTWES HP T1	15/05/2017 11:00 AM	15/05/2017 11:00 AM	0	OPEN
100606004	BF364-Install Shuttle In-position Priority	BF364 Feeder Elect Inbr Control	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	15/05/2017 11:00 AM	15/05/2017 3:00 PM	4	OPEN
100608020	AF151 - Preat Relief Valve Block	AF151 HY01 Feeder Hydraulic Power Pack	PRIMARY CRUSHING AREA	CUST FF HYDRAULICS T1	21/05/2017 2:00 AM	21/05/2017 6:00 AM	4	OPEN
100612714	CV361-MG01 Repair Twisted Catenary	CV361 MG01 Conveyor Magnet Assembly	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 6:30 AM	19/05/2017 10:30 PM	16	OPEN
100613165	BN361-Replace Lower Bin Side Walls	BN361 Feed Bin Assembly	SECONDARY & TERTIARY CRUSHING AREA	PTWES HP T3	15/05/2017 11:00 AM	15/05/2017 12:00 PM	1	OPEN
100613551	CRC363 - Replace Lube Pump 1	CRC363-LU01 Crusher Lubrication System	SECONDARY & TERTIARY CRUSHING AREA	TAS T2	19/05/2017 1:00 AM	19/05/2017 2:00 PM	13	OPEN

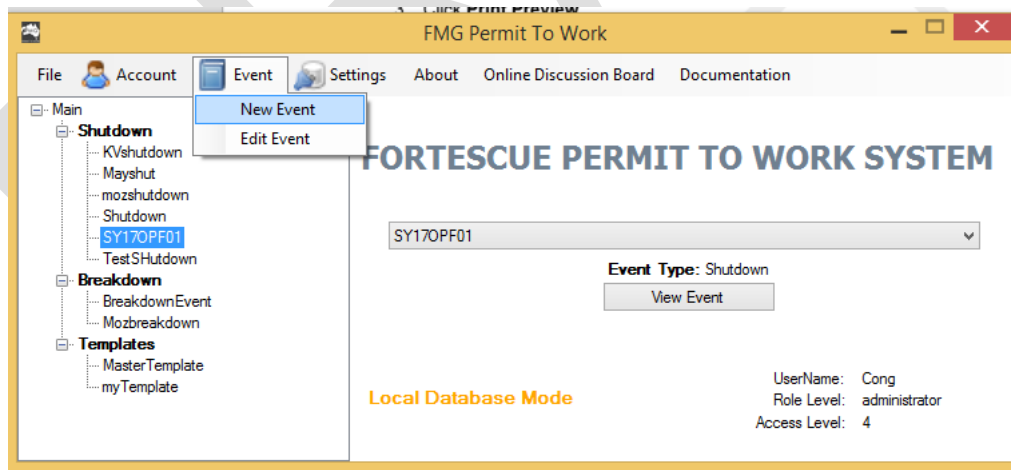
3. Click **Print Preview**.

End of Procedure

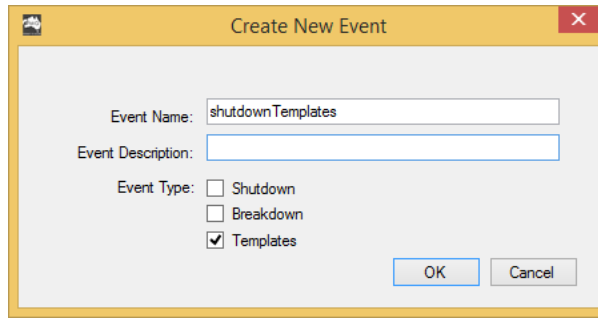
6. TEMPLATES EVENT

6.1 Create New Template Event

1. From the Main Login Screen. Select **Event > New Event**



2. Enter the Event's name and select **Templates**



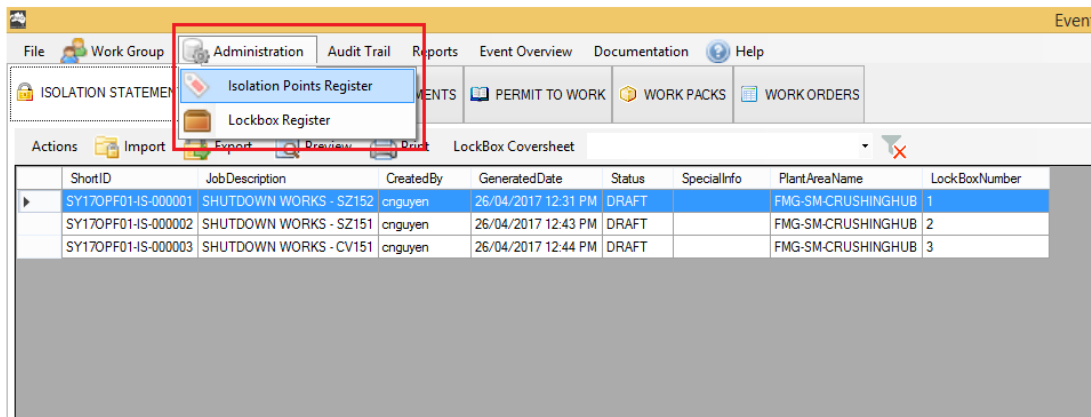
3. Select the newly created event from the drop down list and Click on **View Event** to continue

End of Procedure

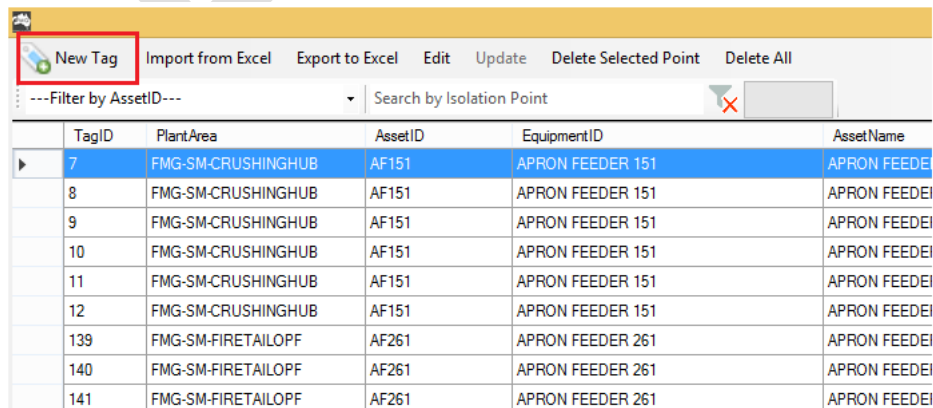
7. ADMINISTRATION

7.1 Add new Isolation Point

1. From the **Event Details** page. Click on **Administration > Isolation Points Register**



2. A new Tag Register Form will popup. Click on **New Tag**



3. Enter the Tag Details. Click **OK** to proceed

Clear Form

Plant Area: FMG-SM-CRUSHINGHUB

Asset ID:

Asset Name:

Equipment ID:

Equipment Name:

Isolation Point:

Isolation Level:

Energy Source:

Clearly Labeled:

Status Required:

Verification:

Lockable:

Comment:

OK Cancel

End of Procedure

7.2 Verify Isolation Points

1. From **Event Details** page. Click **Administration > Isolation Points Register**

Administration

Isolation Points Register

Lockbox Register

ShortID	JobDescription	CreatedBy	GeneratedDate	Status	SpecialInfo	PlantAreaName	LockBoxNumber
SY17OPF01-IS-000001	SHUTDOWN WORKS - SZ152	nguyen	26/04/2017 12:31 PM	DRAFT		FMG-SM-CRUSHINGHUB	1
SY17OPF01-IS-000002	SHUTDOWN WORKS - SZ151	nguyen	26/04/2017 12:43 PM	DRAFT		FMG-SM-CRUSHINGHUB	2
SY17OPF01-IS-000003	SHUTDOWN WORKS - CV151	nguyen	26/04/2017 12:44 PM	DRAFT		FMG-SM-CRUSHINGHUB	3

2. Use the horizontal scroll bar tool to scroll the page to the right

Name	Isolation Point	Isolation Level	Energy Source	Clearly Labeled	Status Required	Verification	Lockable	Drawings	Comments	Verified	Verified Date	Verified By
FREEDER MOTOR 1	SR151 MCC01-AP151-EM001	LV	Electrical, Mechanical	Y	OFF	Test / Try	Y			<input checked="" type="checkbox"/>	18/03/2017 6:09 AM	Cong
FREEDER MOTOR 2	SR151 MCC01-AP151-EM002	LV	Electrical, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
NG FAN 1	SR151 MCC01-AP151-EM003	LV	Electrical, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
NG FAN 2	SR151 MCC01-AP151-EM004	LV	Electrical, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
EATING SYSTEM	SR151 MCC01-AP151-HE001	LV	Electrical, Thermal	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
JUST SUPPRESSION SUPPLY VALVE	FELD-AP151-VA1002	M	Mechanical, Stored	Y	CLOSED	Test/Try and manually check line	Y			<input type="checkbox"/>		
FREEDER POWER PAC	SR102 MCC01-AP201-HY001	LV	Electrical, Hydraulic	Y	OFF	Test / Try	Y			<input checked="" type="checkbox"/>	18/03/2017 6:09 AM	Cong
FREEDER LUBE SYSTEM	SR102 MCC01-AP201-LU001	LV	Electrical, Hydraulic	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
FREEDER OIL COOL FAN	SR102 MCC01-AP201-FN001	LV	Electrical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
FREEDER OIL HEATER	SR102 MCC01-AP201-HE001	LV	Electrical, Thermal	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
FREEDER MOND HOST	SR102 MCC01-AP201-HO001	LV	Electrical, Gravitational, Mechanical	Y	OFF	Test / Try	Y			<input checked="" type="checkbox"/>	18/03/2017 6:09 AM	Cong
FREEDER RT CRANE	SR102 MCC01-AP201-CH001	LV	Electrical, Gravitational, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
SOLUTION PLATE	FELD-AP201-ISOLATION PLATE	M	MECHANICAL	N	INSTALLED-LOCKED	Test/Try and manually check line	Y			<input type="checkbox"/>		
SOLUTION PLATE	FELD-AP202-ISOLATION PLATE	M	MECH	N	INSTALLED-LOCKED	Test / Try	Y			<input type="checkbox"/>		
FREEDER POWER PAC	SR102 MCC01-AP202-HY001	LV	Electrical, Hydraulic	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
FREEDER LUBE SYSTEM	SR102 MCC01-AP202-LU001	LV	Electrical, Hydraulic	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
FREEDER OIL COOL FAN	SR102 MCC01-AP202-FN001	LV	Electrical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
FREEDER OIL HEATER	SR102 MCC01-AP202-HE001	LV	Electrical, Thermal	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
FREEDER MOND HOST	SR102 MCC01-AP202-HO001	LV	Electrical, Gravitational, Mechanical	Y	OFF	Test / Try	Y			<input checked="" type="checkbox"/>	18/03/2017 6:09 AM	Cong
FREEDER RT CRANE	SR102 MCC01-AP202-CH002	LV	Electrical, Gravitational, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
BESER VSD FEEDER	SR203 MCC01-BF271	LV	Electrical, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
BESER VSD FEEDER	SR203 MCC01-BF272	LV	Electrical, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
BESER VSD FEEDER	SR203 MCC01-BF273	LV	Electrical, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
BELT CLAMP 1	FELD-BF271-BELT CLAMP 1	M	Mechanical, Stored	N	APPLIED-LOCKED	Visual	Y			<input type="checkbox"/>		
BELT CLAMP 2	FELD-BF272-BELT CLAMP 2	M	Mechanical, Stored	N	APPLIED-LOCKED	Visual	Y			<input type="checkbox"/>		
BELT CLAMP 3	FELD-BF273-BELT CLAMP 3	M	Mechanical, Stored	N	APPLIED-LOCKED	Visual	Y			<input type="checkbox"/>		
BELT CLAMP 4	FELD-BF274-BELT CLAMP 4	M	Mechanical, Stored	N	APPLIED-LOCKED	Visual	Y			<input type="checkbox"/>		
BELT CLAMP 1	FELD-BF274-BELT CLAMP 1	M	Mechanical, Stored	N	APPLIED-LOCKED	Visual	Y			<input type="checkbox"/>		
BELT CLAMP 2	FELD-BF274-BELT CLAMP 2	M	Mechanical, Stored	N	APPLIED-LOCKED	Visual	Y			<input type="checkbox"/>		
BELT CLAMP 3	FELD-BF274-BELT CLAMP 3	M	Mechanical, Stored	N	APPLIED-LOCKED	Visual	Y			<input type="checkbox"/>		
BELT CLAMP 4	FELD-BF274-BELT CLAMP 4	M	Mechanical, Stored	N	APPLIED-LOCKED	Visual	Y			<input type="checkbox"/>		
BESER VSD FEEDER	SR203 MCC01-BF274	LV	Electrical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
JAC MOTOR 1	SR303 MCC01-BF301-HY01-EM001	LV	Electrical, Hydraulic	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
JAC MOTOR 2	SR303 MCC01-BF301-HY01-EM002	LV	Electrical, Hydraulic	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
DRIVES 1 & 2	SR303 MCC01-BF301-SH01-EM01-02	LV	Electrical, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
BESER OIL HEATER	SR303 MCC01-BF301-HE01	LV	Electrical, Thermal	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
DUNG FAN	SR303 MCC01-BF301-FN01	LV	Electrical, Mechanical	Y	OFF	Test / Try	Y			<input type="checkbox"/>		
RETRACTION PLATE 1	FELD-BF301-RETRACTION PLATE 1	M	Mechanical, Hydraulic, Stored	Y	LANYARD-LOCKED	Test/Try and manually check line	Y			<input type="checkbox"/>		
RETRACTION PLATE 2	FELD-BF301-RETRACTION PLATE 2	M	Mechanical, Hydraulic, Stored	Y	LANYARD-LOCKED	Test/Try and manually check line	Y			<input type="checkbox"/>		
RAM FIXING PLATE 1	FELD-BF302-RAM FIXING PLATE 1	M	Mechanical, Hydraulic, Stored	Y	LANYARD-LOCKED	Test/Try and manually check line	Y			<input type="checkbox"/>		
RAM FIXING PLATE 2	FELD-BF302-RAM FIXING PLATE 2	M	Mechanical, Hydraulic, Stored	Y	LANYARD-LOCKED	Test/Try and manually check line	Y			<input type="checkbox"/>		
BAC MOTOR 1	SR303 MCC01-BF303-HY01-EM01	LV	Electrical, Hydraulic	Y	OFF	Test / Try	Y			<input type="checkbox"/>		

3. Click on **Edit**

4. The page will go into Edit Mode

5. Click on the checkbox for the points to be verified. This will auto populates the time and user's name

Lockable	Drawings	Comments	Verified	VerifiedDate	VerifiedBy
Y			<input checked="" type="checkbox"/>	18/03/2017 6:09 AM	Cong
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input checked="" type="checkbox"/>	18/03/2017 6:09 AM	Cong
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input checked="" type="checkbox"/>	26/04/2017 4:07 PM	Cong
Y			<input checked="" type="checkbox"/>	26/04/2017 4:07 PM	Cong
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input checked="" type="checkbox"/>	18/03/2017 6:09 AM	Cong
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		
Y			<input type="checkbox"/>		

6. Click **Update** to make the change

Name	IsolationPoint	IsolationLevel	EnergySource
FEEDER MOTOR 1	SR151-MCC01-AF151-EM001	LV	Electrical
FEEDER MOTOR 2	SR151-MCC01-AF151-EM002	LV	Electrical
NG FAN 1	SR151-MCC01-AF151-EM003	LV	Electrical
NG FAN 2	SR151-MCC01-AF151-EM004	LV	Electrical
EATING SYSTEM	SR151-MCC01-AF151-HE001	LV	Electrical
DUST SUPPRESSION SUPPLY VALVE	FIELD-AF151-VA1052	M	Mechanical
FEEDER POWER PAC	SR102-MCC01-AF261-HY01	LV	Electrical
FEEDER LUBE SYSTEM	SR102-MCC01-AF261-LUB1	LV	Electrical

End of Procedure

7.3 Add Photo to Isolation Points

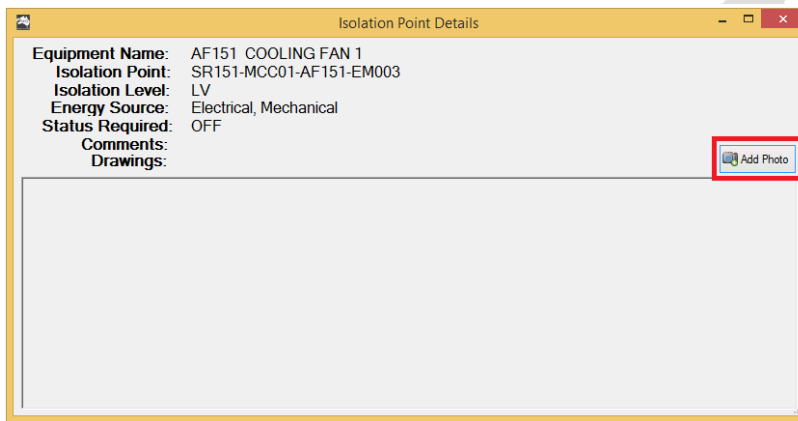
1. From **Event Details** page. Click **Administration > Isolation Points Register**

ShortID	JobDescription	CreatedBy	GeneratedDate	Status	SpecialInfo	PlantAreaName	LockBoxNumber
SY170PF01-IS-000001	SHUTDOWN WORKS - SZ152	nguyen	26/04/2017 12:31 PM	DRAFT		FMG-SM-CRUSHINGHUB	1
SY170PF01-IS-000002	SHUTDOWN WORKS - SZ151	nguyen	26/04/2017 12:43 PM	DRAFT		FMG-SM-CRUSHINGHUB	2
SY170PF01-IS-000003	SHUTDOWN WORKS - CV151	nguyen	26/04/2017 12:44 PM	DRAFT		FMG-SM-CRUSHINGHUB	3

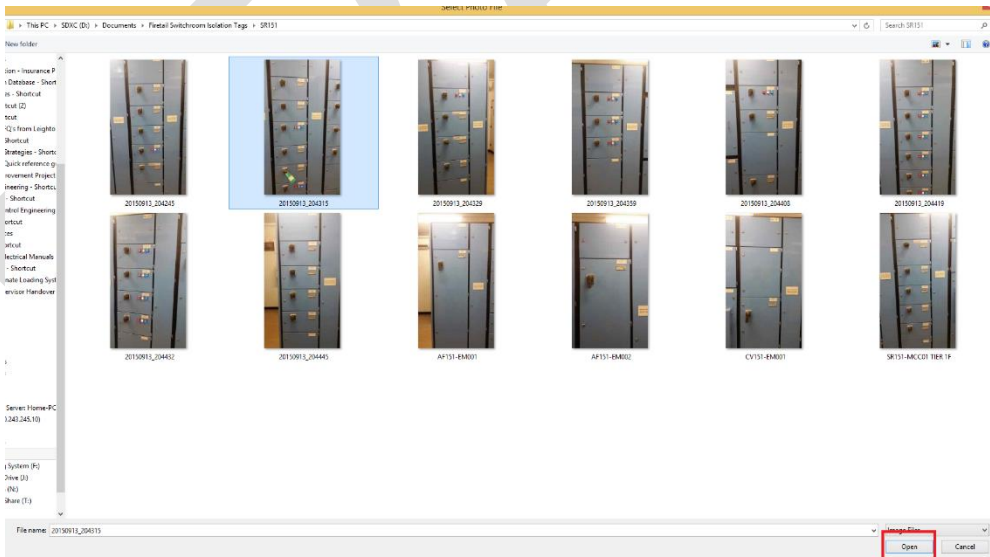
2. Right-click a selected point > **View Photo**

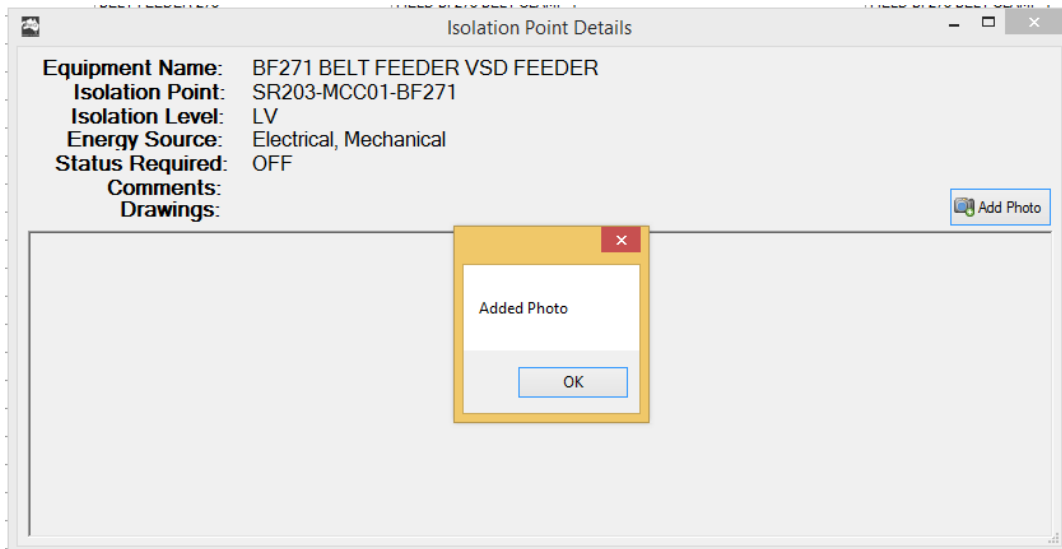
TagID	PlantArea	AssetID	EquipmentID	AssetName	EquipmentName	IsolationPoint
149	FMG-SM-FIRETALOFF	AF262	APRON FEEDER 262	APRON FEEDER 262	AF262 APRON FEEDER MONO HOIST	SR102-MCC01-AF262-HO262
150	FMG-SM-FIRETALOFF	AF262	APRON FEEDER 262	APRON FEEDER 262	AF262 APRON FEEDER BT CRANE	SR102-MCC01-AF262-CN262
197	FMG-SM-FIRETALOFF	BF271	BELT FEEDER 271	BELT FEEDER 271	BF271 BELT FEEDER VSD FEEDER	SR203-MCC01-BF271
202	FMG-SM-FIRETALOFF	BF272	BELT FEEDER 272	BELT FEEDER 272	BF272 BELT FEEDER VSD FEEDER	SR203-MCC01-BF272
201	FMG-SM-FIRETALOFF	BF273	BELT FEEDER 273	BELT FEEDER 273	BF273 BELT FEEDER VSD FEEDER	SR203-MCC01-BF273
768	FMG-SM-FIRETALOFF	BF273	BELT FEEDER 273	BELT FEEDER 273	FIELD-BF273 BELT CLAMP 1	FIELD-BF273 BELT CLAMP 1
769	FMG-SM-FIRETALOFF	BF273	BELT FEEDER 273	BELT FEEDER 273	FIELD-BF273 BELT CLAMP 2	FIELD-BF273 BELT CLAMP 2
770	FMG-SM-FIRETALOFF	BF273	BELT FEEDER 273	BELT FEEDER 273	FIELD-BF273 BELT CLAMP 3	FIELD-BF273 BELT CLAMP 3
771	FMG-SM-FIRETALOFF	BF273	BELT FEEDER 273	BELT FEEDER 273	FIELD-BF273 BELT CLAMP 4	FIELD-BF273 BELT CLAMP 4
772	FMG-SM-FIRETALOFF	BF274	BELT FEEDER 274	BELT FEEDER 274	FIELD - BF274 BELT CLAMP 1	FIELD - BF274 BELT CLAMP 1
773	FMG-SM-FIRETALOFF	BF274	BELT FEEDER 274	BELT FEEDER 274	FIELD - BF274 BELT CLAMP 2	FIELD - BF274 BELT CLAMP 2
774	FMG-SM-FIRETALOFF	BF274	BELT FEEDER 274	BELT FEEDER 274	FIELD - BF274 BELT CLAMP 3	FIELD - BF274 BELT CLAMP 3
775	FMG-SM-FIRETALOFF	BF274	BELT FEEDER 274	BELT FEEDER 274	FIELD - BF274 BELT CLAMP 4	FIELD - BF274 BELT CLAMP 4
206	FMG-SM-FIRETALOFF	BF274	BELT FEEDER 274	BELT FEEDER 274	BF274 BELT FEEDER VSD FEEDER	SR203-MCC01-BF274
252	FMG-SM-FIRETALOFF	BF361	BELT FEEDER 361	BELT FEEDER 361	BF361 HYDRAULIC MOTOR 1	SR303-MCC01-BF361-HYD1-EM01

3. A New window will pop up. Click **Add Photo**



4. Select a Photo Then Click **OPEN** button located at the bottom right corner

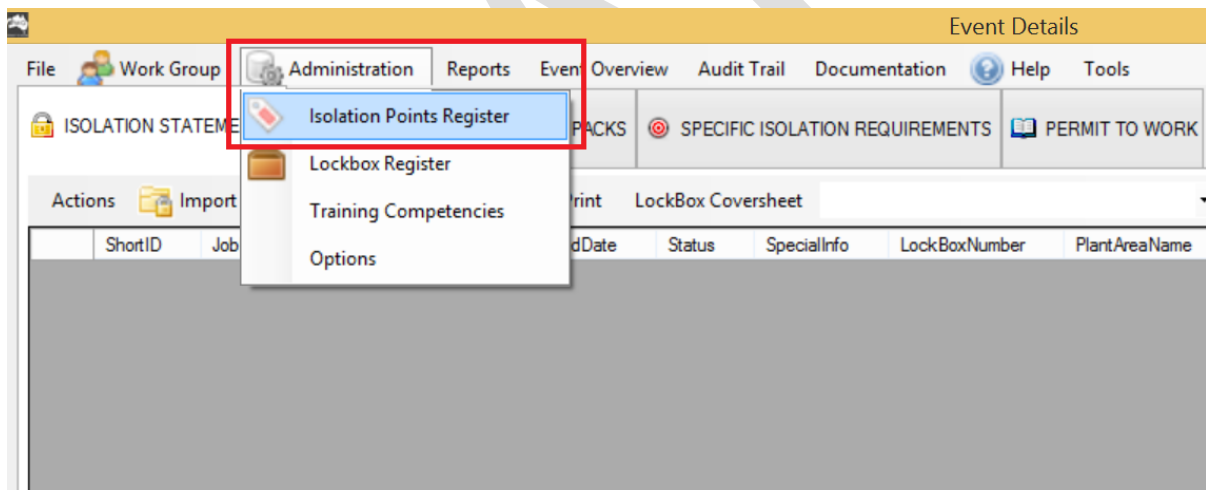




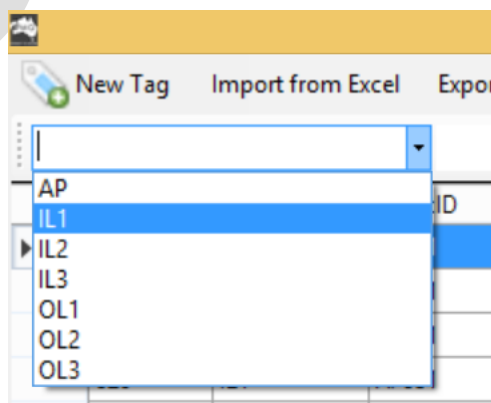
End of Procedure

7.4 Update Isolation Point Details

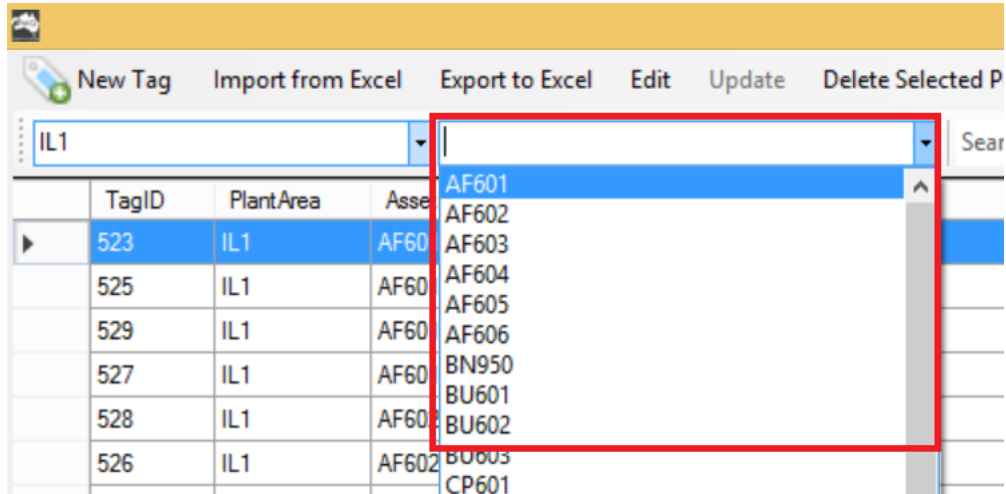
1. Open an Event, Click on **Administration > Isolation Points Register**



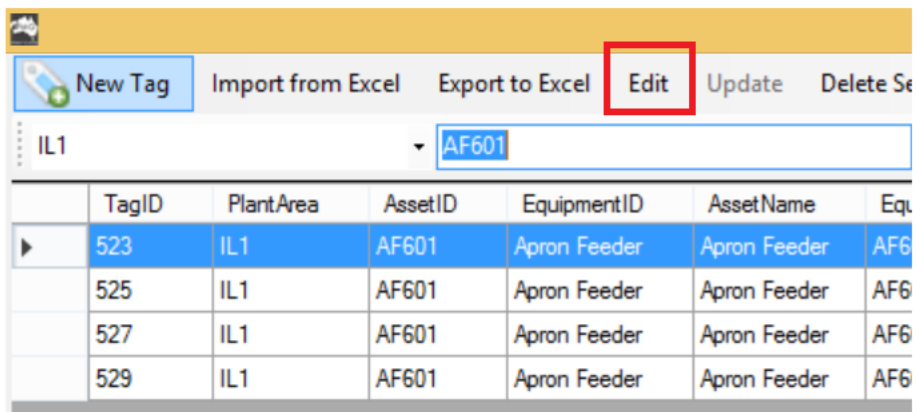
2. Select the Plant Area from the drop down list



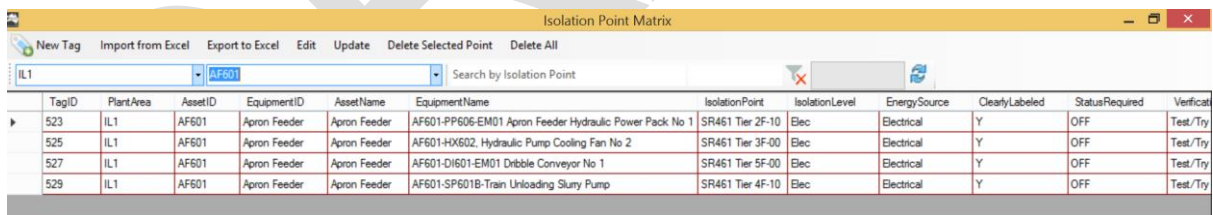
- Select an Asset ID to drill down the list further:



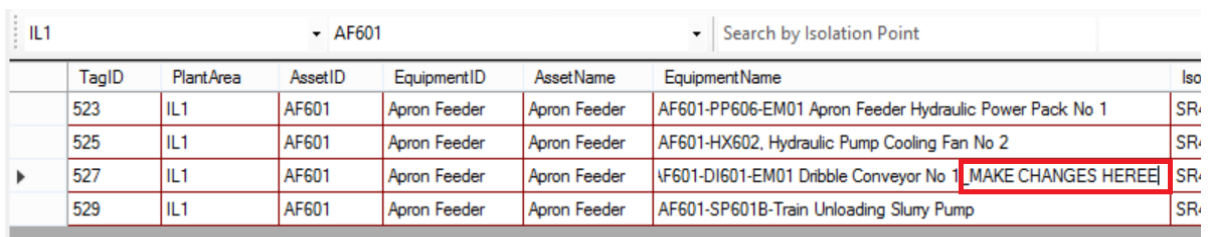
- Click on **Edit**



- The grid will be coloured in RED to indicate that you are now in Edit Mode



- Double-click the cell and type in the change:



- Click **Update** to make the change

TagID	PlantArea	AssetID	EquipmentID	AssetName	EquipmentName
523	IL1	AF601	Apron Feeder	Apron Feeder	AF601-PP606-EM01 Apron Feeder Hydraulic Power Pack No 1
525	IL1	AF601	Apron Feeder	Apron Feeder	AF601-HX602, Hydraulic Pump Cooling Fan No 2
527	IL1	AF601	Apron Feeder	Apron Feeder	AF601-DI601-EM01 Dribble Conveyor No 1_MAKE CHANGES HERE
529	IL1	AF601	Apron Feeder	Apron Feeder	AF601-SP601B-Train Unloading Slurry Pump

End OF PROCEDURE

7.5 Duplicate Isolation Tag

1. To duplicate a Tag, Right-click a point. Select **Duplicate**

TagID	PlantArea	AssetID	EquipmentID	AssetName	EquipmentName
523	IL1	AF601	Apron Feeder	Apron Feeder	AF601-PP606-EM01 Apron Feeder Hydraulic Power Pack No 1
525	IL1	AF601	Apron Feeder	Apron Feeder	AF601-HX602, Hydraulic Pump Cooling Fan No 2
527	IL1	AF601	Apron Feeder	Apron Feeder	AF601-DI601-EM01 Dribble Conveyor No 1_MAKE CHANGES HERE
529	IL1	AF601	Apron Feeder	Apron Feeder	AF601-SP601B-Train Unloading Slurry Pump

2. New form will pop up, fill in the details and click **OK**

New Isolation Tags

Clear Form

Plant Area:

Asset ID:

Asset Name:

Equipment ID:

Equipment Name:

Isolation Point:

Isolation Level:

Energy Source:

Clearly Labeled:

Status Required:

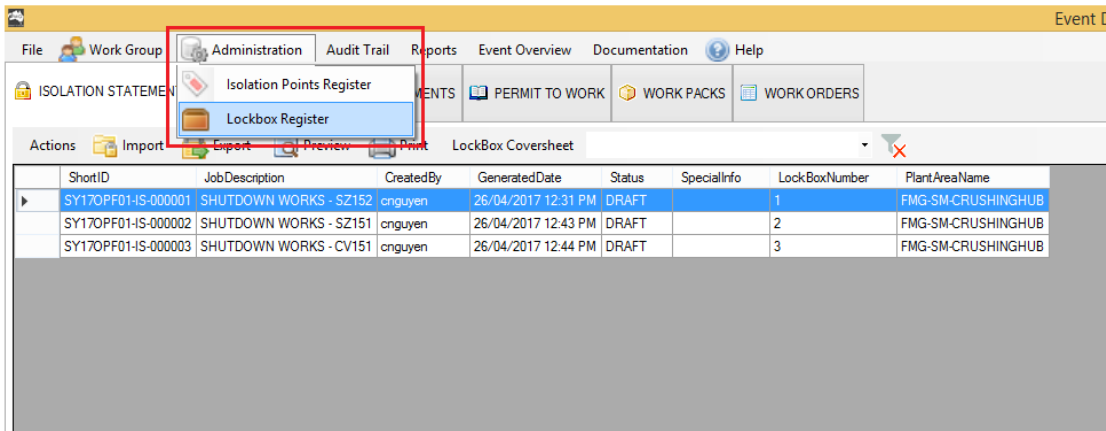
Verification:

Lockable:

Comment:

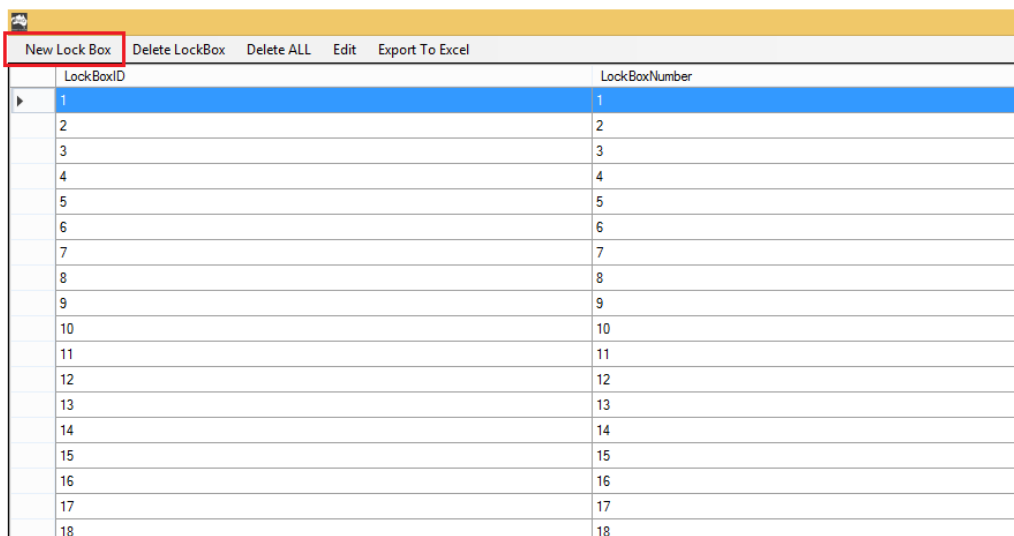
7.6 Add New Lock Box

1. From the **Event Details Window**. Click on **Administration > Lockbox Register**



2. Right-click an isolation Point > View Photo

3. A New window will popup. Click on **New Lock Box**



4. Enter the Lock box details. Click **SAVE** to proceed

LockBox Location: Firetail OPF

LockBox Key Number:

Copies: 12

SAVE Cancel

LockBoxID	LockBoxNumber	LockBoxLocation	LockBoxKeyNumbe
171	171	Firetail OPF	
172	172	Firetail OPF	
173	173	Firetail OPF	
174	174	Firetail OPF	
175	175	Firetail OPF	
176	176	Firetail OPF	
177	177	Firetail OPF	
178	178	Firetail OPF	
179	179	Firetail OPF	
180	180	Firetail OPF	
181	181	Firetail OPF	
182	182	Firetail OPF	

Note: you may also add custom lockbox names for example:

Double click on the LockBoxNumber Cell to edit

LockBox Location: Firetail OPF

LockBox Key Number:

Copies: 5

SAVE Cancel

LockBoxID	LockBoxNumber	LockBoxLocation	LockBoxKeyNumbe
171	HV/AB01	Firetail OPF	
172	HV/AB02	Firetail OPF	
173	HV/AB03	Firetail OPF	
174	HV/AB04	Firetail OPF	
175	HV/AB05	Firetail OPF	

End of Procedure