Synergi Plant Training Inspection reporting

Inspection Management Flow Chart

Inspection Management Flow Chart

> Create Inspection Plan

Time based Inspection

Condition based Inspection / RBI Inspection

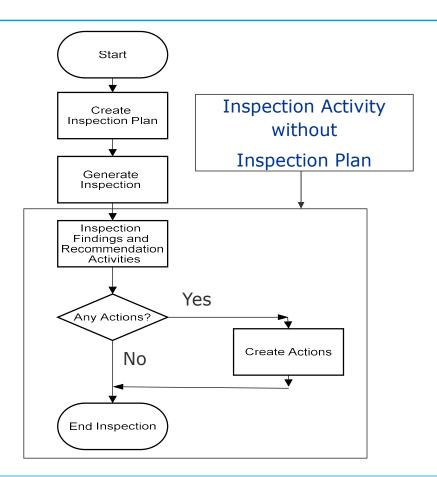
> Generate Inspection

Creates Inspection Activities based on Inspection Plan both Time based and Condition based, Rbi Inspection.

> Inspection Activity

Enter Inspection Findings and Recommendation details Any Actions? required or not check.

Create Action and enter details



Inspection Reporting with Inspection Activities and Actions

- > Activities as two sections, **Inspections**, **Actions**
- > Activities is used to create Inspections record and as well Required Actions
- Completed Activities can be opened using Reopen button
- Inspections as two processes, Inspection Reporting and Inspection Approving
- > Inspections process tasks can be Completed by self and as well go through Approval procedure
- > Inspections, Summary, Task list, Schedule, Inspection and Revised Due Date are recorded
- > Inspections, Findings, RBI Tasks, Inspection Methods, Observations are recorded
- > Photograph, Inspection documents, Drawing documents are attached
- Actions as one process, Action Performing
- > Actions can be completed by self and as well can assign to another Inspection Engineer
- > Actions, Summary details, Tasks and attaching Documents are recorded

Inspections

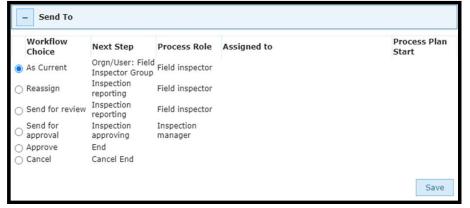
Inspections Workflow

- Workflow Diagram explains how to work and control Inspections Activities, Inspections Reporting and Inspection Approving with workflow steps like,
- Inspection Plan
- Generated Inspections method
- Manual method
- Auto DB schedule method
- Record Findings
- Attach Documents

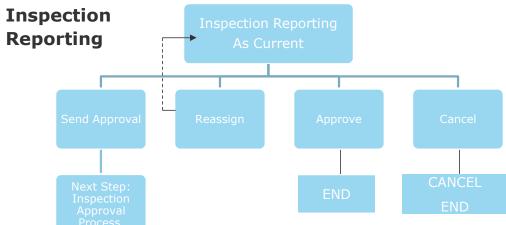
Workflow chart

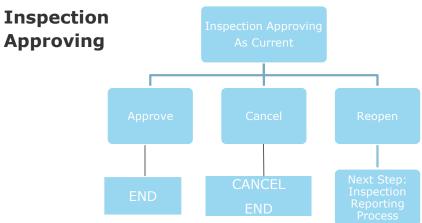


Inspection Workflow Send To steps

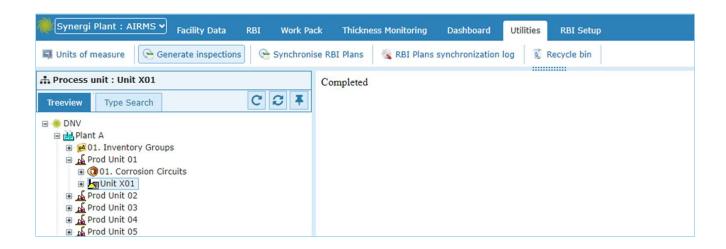








Generate scheduled inspection activities



> Generate scheduled inspections

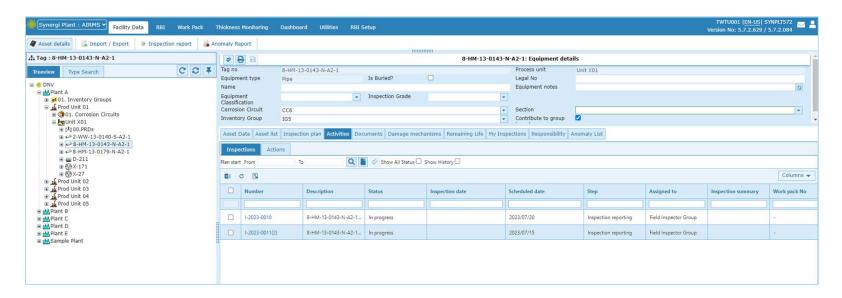
All scheduled inspection activities will be generated

RBI tasks linked to a plan will be generated as one activity with multiple tasks in it

RBI tasks not linked to a plan but scheduled will be generated as individual activities

Time-based inspection plans will be generated as activities on scheduled dates

Find inspection activities on Asset Details



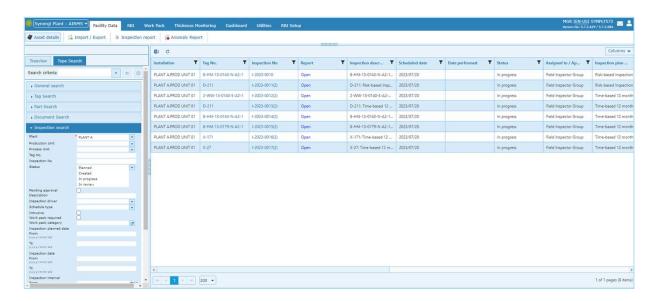
> Find inspections on Tag

Focus on a Tag in the asset tree

Goes to the Activities page and then go to the Inspections sub-page

Open inspections can be found with hyperlinks to open the inspection reporting screen

Find inspection activities by Type Search



> Find inspections by Type Search

Go to the Type Search next to the asset tree

Select Inspection Search

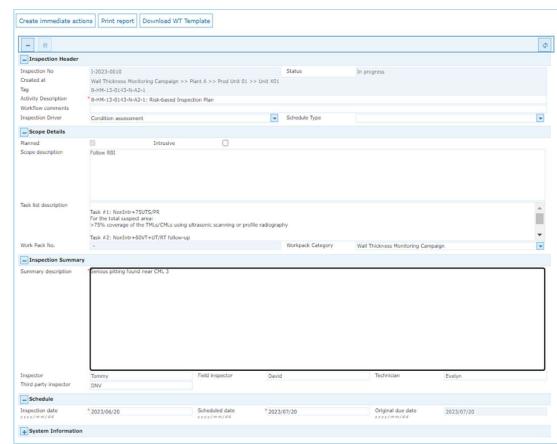
Select the Plant and click the Search button

In the result list you can filter the Installation with Contains Unit 01 for example

Inspection: Inspection Reporting Form

- Create Immediate Actions can create Actions for Inspections
- Print Report can generate, Planned Inspection report
- Planned is checked for **Generated Inspections** .

SNo	Property Name	Description			
	General Information				
1	Activity Description	Long Text for inspection identifier			
2	Workflow Comments	Long Text for process message			
3	Inspection Driver	Options of driver			
4	Schedule Type	Major or Periodic Inspection			
5	Intrusive	Yes / No, Checkbox			
6	Scope Description	Long Text for describing work scope			
7	Task List Description	Long Text for detail task descriptions			
8	Workpack Category	Work Package Campaign			
9	Summary Description	Mandatory summary of results			
10	Inspector	Name of responsible inspector			
11	Field Inspector	Name of field inspector			
13	Technician	Name of technician			
14	Third Party Inspector	Name of 3 rd party inspector or company			
15	Inspection Date	Actual date of inspection onsite			
16	Scheduled Date	Due date of this inspection			



Inspections: Data Lists and Documents



- Activity Documents
- Photographs
- Technical Report
- Inspection Report
- Inspection scope doc

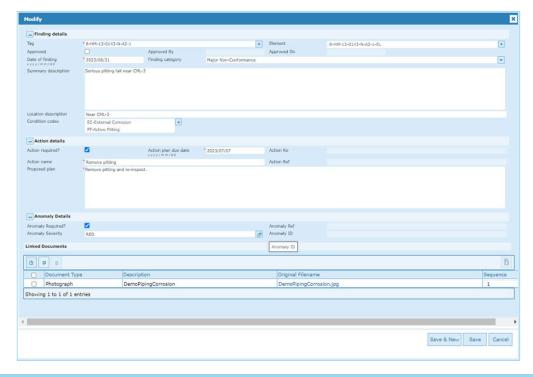
All these documents can store multiple files

Activity Recording Sheets (Data Lists)

- Findings Inspection findings can enter multiple findings
- RBI Tasks RBI Inspection Tasks can enter multiple tasks
- Inspection Methods Intrusive , Non-Intrusive Inspection Methods and can enter multiple details
- Observations Inspection Observation can enter multiple details

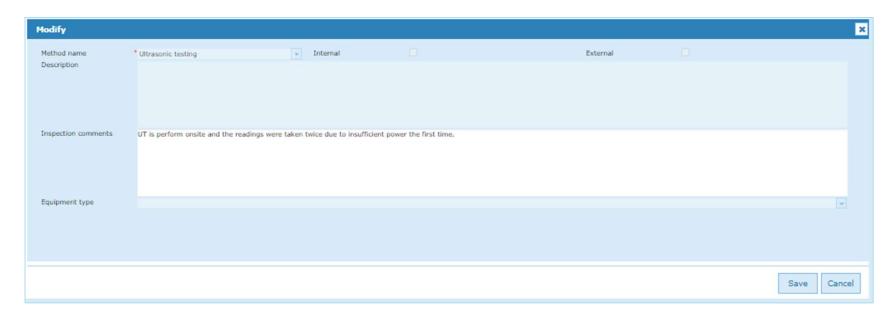
Findings (Multiple Inspection Findings)

- Findings, Activity Recording sheet is configured to record Inspection findings information
- Finding as two parts, New findings details and Linked Inspection Documents



SNo.	Property Name	Details
1	Tag	Inspected Tag
2	Element	Element of finding
3	Approved	Yes/No checkbox.
4	Date of Finding	Mandatory finding date
5	Finding Category	Major Non-Conformance, Minor Non- Conformance, Recommendation, Satisfactory.
6	Summary description	Entry, Large text
7	Location description	Entry text
8	Condition codes	Multiple options of conditions
9	Action required ?	If this finding needs follow-up action
10	Action Plan Due Date	DD/MM/YYYY date format
11	Action Name	Entry text
12	Proposed Action Plan	Entry Large text
13	Anomaly Required?	If this finding needs to create an anomaly
14	Anomaly Severity	How serious of the anomaly

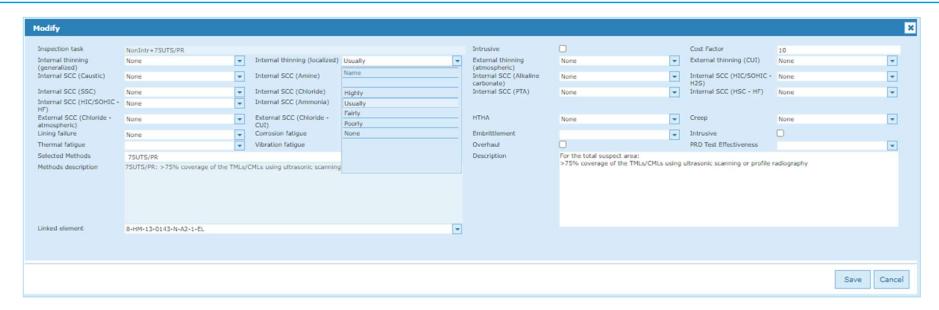
Inspection Methods



Multiple Inspection Methods can be created for comments of each method

- > Inspection Methods are Inspection Monitoring types like Ultrasonic Testing, Radiographic Testing, Leak Testing, Acoustic Testing
- > For scheduled inspection, the default inspection methods are defined in the inspection plan

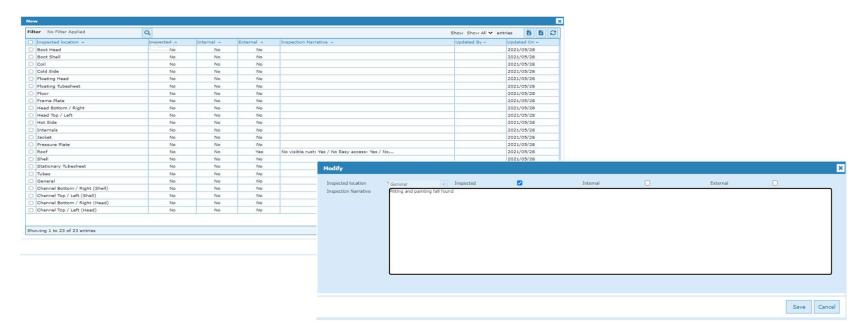
RBI Tasks



RBI Tasks

- Required Tasks selected based on Task Name, Intrusive, Cost Factor, Internal Thinning, External Thinning and more details.
- The Actual Inspection Effectiveness should be selected, and it will be used in the next RBI assessment.
 This is a very import input for the ever-greening.

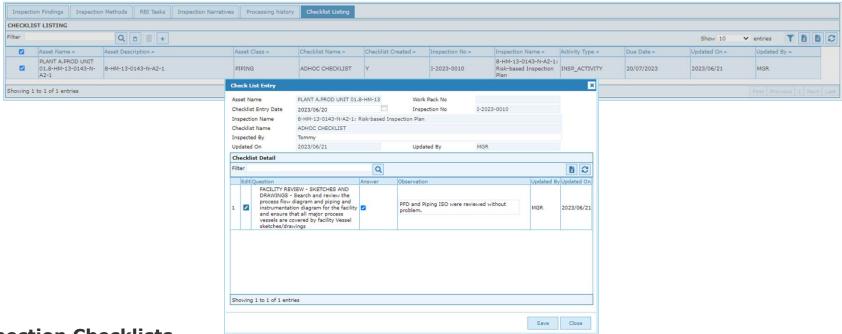
Inspection Narratives



> Inspection Narratives

- Inspection Narratives can be added with selecting the default values from the library.
- It has the Inspected location, Inspected, Internal and External corrosion to record.

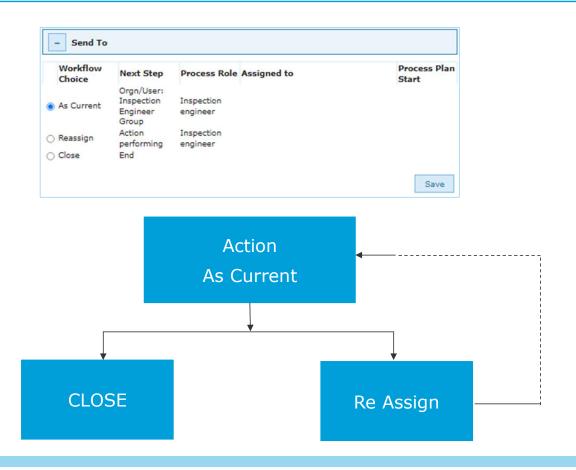
Inspection Checklists



Inspection Checklists

- Checklists can be added with selecting the default checklists defined in the library.
- For each checklist item input the answer with optional observation details.

Actions Work Flow

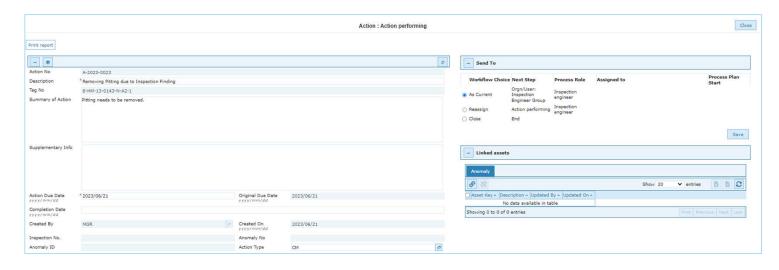


> Actions Workflow

Actions has three Send To status.

- As Current
- Close
- Reassign to Other Group/Inspection Engineer.

Action



Action Workflow

Actions as three Send To status.

- As Current
- Close
- Reassign to Other Group/Inspection Engineer.

> Action General Information

Action No. auto generated; Selected Tag displayed

Description, Summary of Action and Supplementary Info can be entered

Action Due Date is calculated but can be modified

Completion Date can be entered

Action: Data Lists and Documents

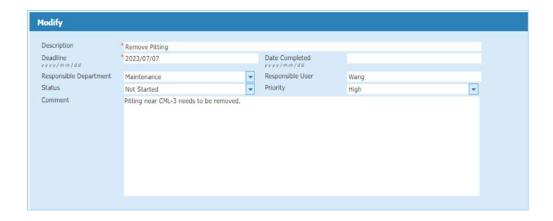


Activity Recording Sheets – Tasks, multiple entries

Activity Document – Inspection Report, Photograph, Technical Report, multiple entries

Action: Tasks





SNo	Property Name	Details
2	Description	Tasks details, Entry, long text
3	Deadline	Date format: DD/MM/YYYY, Task Deadline scheduled date
4	Date Completed	Task Completed Date
5	Responsible Department	Inspection, Maintenance, Operations, Projects
6	Responsible User	Name of the person, responsible
7	Status	Cancel, Completed, In Process, Not started
8	Priority	High, Low, Medium
9	Comments	Entry, Large Text

> Task creation

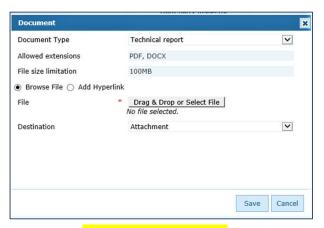
- Enter Description mandatory value, Task Description
- Select Deadline, mandatory value, task scheduled date

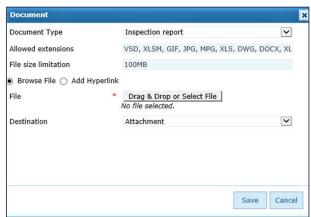
Activity Documents

- Activity Documents are available for both Activities, Inspections and Actions.
- ➤ Inspection Report
- ➤ Photograph
- ➤ Technical Report

SNo.	Document Type	File Type
1	Inspection Report	VSD, XLSM, GIF, JPG, MPG, XLS, DWG, DOCX, XLSX, PDF, DOC, PPT
2	Photograph	VSD, PNG, JPG, BMP, TIFF, GIF
3	Technical report	PDF, DOCX







Photograph

Technical Report

Inspection Report

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