

# Da Vinci Smart Manufacturing

## BRD S09.03 Log Book Furnace Downtime Log

Version	Created/Modified by	Description	Date
1.0	Leopoldo Rivera Sahana Badal	S09.03 First draft	26/05/2025

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The Furnace Down Time Module enables users to log, manage, and track downtime events and their respective splits for furnaces in the production process. The module provides comprehensive functionality to record and update event statuses, split events, and track reasons for downtime. This BRD outlines the requirements for adding, editing, viewing, and deleting downtime events and splits, as well as managing statuses.

## 1. List Screen

### 1.1. Header Section

- **Title:** "Furnace Downtime Log"
- **Stats Section:** Total count of Completed | Active
- **Search Bar:** Tooltip text: Search by Event ID / Split ID (e.g. 12 in DT\_12 or DT\_12\_SP\_12)
- **Filters:**
  - Furnace ID -
    - Multiselect Dropdown
    - All furnaces for which event exists
  - Event Date and Time -
    - Date range picker
  - Downtime Type
    - Multiselect Dropdown
  - Equipment
    - Multiselect Dropdown
  - Reason
    - Multiselect Dropdown

**NOTE:** For Downtime Type, Equipment and Reason see the following document for the values. [Downtime Logsheet Dropdown Details.xlsx](#)

- Status -
  - Multiselect Dropdown:
  - Values: Completed | Active
- **Action Buttons in Header:**
  - **Add Event:** Button to create a new event record.

### 1.2. List Section

- The list screen shows all recorded downtime events (both Automate and manual records) presented in a tabular format.
- **Table Default Sorting :** Event Date and Time in descending order
- Each row represents a single downtime event with key information such as,
- Furnace ID
  - The furnace number for which the event is created

- Sorting: Yes
- Frozen: Yes
- Event ID
  - System-generated ID in the format (DT\_Incremental Number from 1).
  - Sorting: Yes
  - Frozen - Yes
- Event Start Date & Time
  - Start date and time of event
  - Sorting: Yes
  - Frozen - No
- Event End Date & Time
  - End date and time of event
  - Sorting: Yes
  - Frozen - No
- Duration
  - Calculated value - difference between start and end time,
  - Will be empty for events that do not have an end time
  - Sorting: Yes
  - Frozen - No
- Equipment
  - Equipment mapped during event creation
  - Sorting: Yes
  - Frozen - No
- Reason
  - Reason mapped with the equipment during event creation
  - Sorting: Yes
  - Frozen - No
- Status
  - Status of event:
    - Completed: event has not be Marked as complete
    - Active: event has be Marked as complete
  - Sorting: Yes
  - Frozen - No
- Each downtime event can be drilled into to reveal detailed splits. When the user clicks on an event, the list expands to show the splits associated with that event. These splits break down the downtime into more granular segments, showing specific intervals and reasons for different phases of the event. For each split under a downtime event, the following details are visible:
  - Split ID
    - System-generated ID in the format (Event ID\_SP\_Incremental Number from 1).
  - Start Date and Time
    - Start date and time of split
    - Sorting: Will apply parent event sorting
  - End Date and Time,
    - End date and time of split

- Sorting: Will apply parent event sorting
- Duration
  - Calculated value - difference between start and end time
  - Sorting: Will apply parent event sorting
- Equipment
  - Equipment mapped during split creation
  - Sorting: Will apply parent event sorting
- Reason
  - Reason mapped with the equipment during event creation
  - Sorting: Will apply parent event sorting
- **Note:** Horizontal scroll is required to be able to navigate through all columns and visualize all data but always respecting the frozen columns.
- **Action Buttons:**
- Depending on the status, system allows users perform following action on **Events**.
  - **Completed:**
    - View - Record details can be viewed in non-editable mode
    - Edit - Record details can be edited
    - Delete - Selected event record will be a soft delete. A confirmation message will be prompted “Are you sure you want to delete this Event “Event ID”? If the event has splits under it, there will be confirmation prompt “This even has splits, deleting the event will delete all splits, Are you sure you want to delete this Event “Event ID”?”
  - **Active**
    - View - Record details can be viewed in non-editable mode
    - Edit - Record details can be edited
    - Add Split - New splits can be added
    - Delete - Selected event record will be a soft delete. A confirmation message will be prompted “Are you sure you want to delete this Event “Event ID”? If the event has splits under it, there will be confirmation prompt “This even has splits, deleting the event will delete all splits, Are you sure you want to delete this Event “Event ID”?”
- System allows users to perform following action on **Splits** for the following event status.
  - **Completed Event:**
    - View - Record details can be viewed in non-editable mode
  - **Active Event**
    - Edit - Record details can be edited
    - View - Record details can be viewed in non-editable mode
    - Delete - Delete the particular split. A confirmation prompt will appear “ Are you sure you want to delete this split “Split ID”?”
- **Pagination Controls:** Navigation buttons to browse through multiple pages of records, if applicable (for more than 10 records).
- Rows Per page : Default 10, Dropdown values: 10, 20, 30, 40, 50

- **Export Function:** The export function must extract ALL the information including chemical results of the list of records shown based on the combined results of filter selection, sort and search criteria. as the following example:

Furnace ID	Event ID	Start Date & Time	End Date & Time	Duration (h)	Downtime Type	Equipment	Reason Code	Comments	Status
1	DT_1	01/05/2025 11:55	01/05/2025 11:55	9.5	Planned Stoppage	Pump	Electrical Failure	Pump overvoltage	Completed
1	SP_1	01/05/2025 11:55	01/05/2025 11:55	10	Unplanned Stoppage	Electrode	Breakage	High pressure	Completed

- **Exported File Name:** Downtime Log

### Customize Columns:

- Users can enable or disable all columns based on their preference.
- Only the enabled columns will be visible in the list.
- Columns marked as ‘frozen’ will be enabled by default and cannot be modified.
- Split related columns will not be available for customization. However if similar columns of events are modified in events, it will be applied to splits as well.

Furnace ID	Event ID	Start Date & Time	End Date & Time	Duration	Equipment	Reason	Status
18	DT_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay	Carousel	Completed
18	DT_1	26/03/2025   02:55 PM	26/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay	Carousel	Active
Split ID		Start Date & Time	End Date & Time	Duration	Equipment	Reason	
DT_1_SP_1		26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay	Carousel	

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Rows Per Page: 10

## 2. Add Event

Clicking on Add Event button will open up a slider which will have the following

**Header:** Add Event | Close Icon

When adding a downtime event, users must input several key details:

- **Furnace ID:**
  - User selects the furnace ID from a single select dropdown, Identifies which furnace experienced the downtime.
  - Mandatory - Yes
  - Default value - No
  - Field Type - Single Select Dropdown Values: All active furnaces
  - Validation - No
- **Event Start Date & Time\***
  - Users select the date and time of the analysis using a date picker. Specifies when the downtime started. This is critical for calculating the duration of the downtime.
  - Mandatory - Yes
  - Default value- Current Date and time will be displayed as default.
  - Field Type Single Date and time picker
  - No Validation
- **Event End Date & Time**
  - Users select the date and time of the analysis using a date picker. Specifies when the downtime started. This is critical for calculating the duration of the downtime. **End time is optional when creating an event.**
  - Mandatory - No
  - Default value- None
  - Field Type Single Date and time picker
  - Validation -
    - The end time must be after the start time.
    - End time cannot be greater than current time
- **Downtime Type\***
  - Users selects from dropdown the downtime type
  - Mandatory - Yes
  - Default Value - None
  - Validation - No
  - Field Type - Single select dropdown
- **Equipment\***
  - Users selects from dropdown the equipment, this list is dependant on the type of downtime type selected.
  - Mandatory - Yes
  - Default Value - None
  - Validation - No
  - Field Type - Single select dropdown
- **Reason\***
  - Users selects from dropdown the reason, this list is dependant on the type of downtime type selected.

- Mandatory - Yes
- Default Value - None
- Validation - No
- Field Type - Single select dropdown

**NOTE:** For Downtime Type, Equipment and Reason see the following document for the values. [Downtime Logsheets Dropdown Details.xlsx](#)

- **Comments:**
  - Users can input any additional comments.
  - Mandatory - No
  - Default Value - None
  - Field Validation - All (Including special characters), 100 characters
- **Mark as Complete**
  - Users can mark the even as complete once its over.
  - Mandatory - No
  - Default Value - Not complete
  - Field Type - Toggle
  - Validation
    - An event with no end time cannot be marked as complete
    - Before users can mark the event as complete or save any updates, there must be valid selections from the dropdown lists or downtime type, equipment and reason for the event.
    - To validate if all split end times are earlier or same as the event end time. If not, mark as complete cannot be completed.

### **Action Buttons**

- **Save:**
  - Saves the record with Status: Complete, if even is marked as complete ( Pending events are those where downtime is still ongoing or details are incomplete.)
  - Saves the record with Status: Active, if even is NOT marked as complete.( Completed events are finalized, meaning the downtime has ended, and all relevant details (e.g., reason, duration) have been entered.)
- **Cancel:** Cancels the current operation and returns to the list screen



Furnace Downtime Log

Completed

5

Active

35

Q Search

Filters

Furnace ID	Event ID	Start Date & Time	End Date & Time	Duration	Equipment
18	DT_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay
18	DT_1	26/03/2025   02:55 PM	26/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay
Split ID	Start Date & Time	End Date & Time	Duration	Equipment	
DT_1_SP_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay	

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ADD EVENT

Furnace ID\*

Select

Event Start Date & Time\*

16/04/2025 02:21 PM

Event End Date & Time

Select

Downtime Type\*

Select

Equipment\*

Select

Reason\*

Select

Comments

Enter Comments

Cancel

Save

### 3. View Event

Once downtime events are logged, they can be viewed by clicking the View icon. This allows users with appropriate permissions to see the full details of each event without the ability to edit or modify the information.

## Header

- Event ID : DT\_1 | Close Icon

The following information is visible in read-only format

- **Furnace ID**
- **Event Start Date and Time:** Shows the timestamp when the event started.
- **Source:** Manual if record added in this system, Automate/system name when integrated from external system.
- **Event End Date and Time:** Shows the timestamp when the event ended.
- **Duration:** calculated value- difference between start and end time

- **Updated By:** Userid | First Name + Last Name in case of manual records, in case of external system integration, default value “External System”
- **Downtime Type:** Displays the type whether planned, operational etc
- **Equipment:** Displays the equipment that has the downtime
- **Reason** Displays the reason for downtime.
- **Status:** Active(displayed in red) or Complete(displayed in green)
- **Comments:** Displays any user-provided notes, supporting special characters (max 100 characters)

The screenshot shows the 'Furnace Downtime Log' interface. It includes a search bar, filters, and a table of events. The table has columns for Furnace ID, Event ID, Start Date & Time, End Date & Time, Duration, and Equipment. A detailed view of event 'DT\_2' is shown on the right, displaying fields for Furnace ID, Event Start Date & Time, Source, Event End Date & Time, Duration, Updated By, Equipment, Reason, Downtime Type, Status, and Comments.

Furnace ID	Event ID	Start Date & Time	End Date & Time	Duration	Equipment
18	DT_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay
18	DT_1	26/03/2025   02:55 PM	26/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay
DT_1_SP_1		26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay

VIEW EVENT - DT_2	
Furnace ID	Event Start Date & Time
12	14-04-2025   12:30 PM
Source	Event End Date & Time
Manual	15-04-2025   12:00 AM
Duration	Updated By
11 hrs 29 mins	super user
Equipment	Reason
Casting Bay	Carousel
Downtime Type	Status
Breakdown Downtime	Active
Comments	-----

## 4. Edit Event

Users with the necessary permissions can modify the details of downtime events by clicking the Edit icon. This opens a slider where the fields (except the furnace ID) can be updated.

If more details or splits need to be added to a completed event, it can be reverted to pending.

**Header:** Event ID : DT\_1 | Close Icon

- **Furnace ID**
  - Non-editable and pre-populated with the existing value
  - Mandatory - Yes
  - Default value - No
  - Validation - No
- **Source**
  - Non-editable and pre-populated with the existing value
  - Default value - No
  - Validation - No
- **Event Start Date & Time\***
  - Editable and pre-populated with the existing value.

- Default value- Current Date and time will be displayed as default.
- Mandatory: Yes
- **Event End Date & Time**
  - Editable and pre-populated with the existing value.
  - Default value- None
  - Mandatory: Yes
  - Validation -
    - The end time must be after the start time.
    - End time cannot be greater than current time
- **Downtime Type\***
  - Editable and pre-populated with the existing value.
  - Default value- For events pulled from Automate, the system will initially display a default value such as “To be updated.”
  - Mandatory: Yes
- **Equipment\***
  - Editable and pre-populated with the existing value.
  - Mandatory - Yes
  - Default Value - For events pulled from Automate, the system will initially display a default value such as “To be updated.”
  - Validation - No
- **Reason\***
  - Editable and pre-populated with the existing value.
  - Mandatory - Yes
  - Default Value - For events pulled from Automate, the system will initially display a default value such as “To be updated.”
  - Validation - No
- **Comments:**
  - Editable and pre-populated with the existing value.
  - Mandatory - No
  - Default Value - None
  - Field Validation - All (Including special characters), 100 characters
- **Mark as Complete**
  - Editable and pre-populated with the existing value.
  - Mandatory - No
  - Default Value - Not complete
  - Validation
    - An event with no end time cannot be marked as complete
    - Before users can mark the event as complete or save any updates, there must be valid selections from the dropdown lists or downtime type, equipment and reason for the event.
    - To validate if all split end times are earlier or same as the event end time. If not, mark as complete cannot be completed.

### **Action Buttons**

- **Save:**

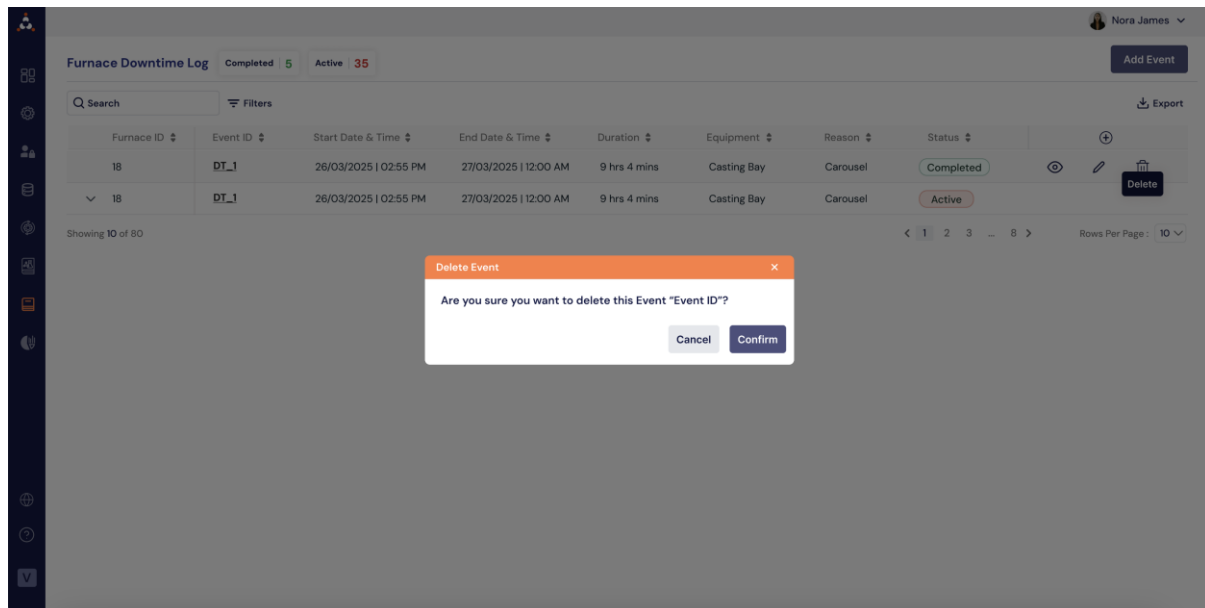
- Saves the record with Status: Complete, if even is marked as complete (Pending events are those where downtime is still ongoing or details are incomplete)
- Saves the record with Status: Active, if even is NOT marked as complete (Completed events are finalized, meaning the downtime has ended, and all relevant details (e.g., reason, duration) have been entered.)
- **Cancel:** Cancels the current operation and returns to the list screen

The screenshot displays the 'Furnace Downtime Log' interface. On the left, a sidebar contains navigation icons. The main area shows a table with columns: Furnace ID, Event ID, Start Date & Time, End Date & Time, Duration, and Equipment. The table lists two events, both with Furnace ID 18 and Event ID DT\_1, occurring on 26/03/2025 from 02:55 PM to 27/03/2025 at 12:00 AM, with a duration of 9 hrs 4 mins, and equipment 'Casting Bay'. Below the table, it says 'Showing 10 of 80'. On the right, the 'EDIT EVENT - DT\_2' sidebar is open, showing fields for Furnace ID (12), Source (Automate), Event Start Date & Time (14/04/2025 12:30 PM), Event End Date & Time (18/04/2025 12:30 PM), Downtime Type (To be updated), Equipment (To be updated), Reason (To be updated), and Comments. At the bottom of the sidebar are 'Cancel' and 'Save' buttons.

## 5. Delete Event

Downtime events can be deleted, but only under specific conditions:

- If the event has no splits, a simple confirmation prompt appears to verify the deletion.
- If there are associated splits, the system warns the user that deleting the event will also delete all the splits. This feature prevents loss of important data without the user's consent.



## 6. Add Split

Clicking on Add Split icon will open up a slider which will have the following

**Header:** Add Split | Close Icon

When adding a downtime event split, users must input several key details:

- **Furnace ID:**
  - Auto populated based on parent Event furnace ID
  - Mandatory - Yes
  - Default value - autopopulated
  - Validation - No
- **Split Start Date & Time\***
  - Users select the date and time of the analysis using a date picker. Specifies when the downtime started. This is critical for calculating the duration of the downtime.
  - Mandatory - Yes
  - Default value- Split Date and time will be displayed as default.
  - Field Type Single Date and time picker
  - It cannot be before Event start end date and time
- **Split End Date & Time\***
  - Users select the date and time of the analysis using a date picker. Specifies when the downtime started. This is critical for calculating the duration of the downtime.
  - Mandatory - Yes
  - Default value- None
  - Field Type Single Date and time picker
  - Validation -
    - The end time must be after the start time.

- End time cannot be greater than current time
- It has to be earlier than Event End time.
- **Downtime Type\***
  - Users selects from dropdown the downtime type
  - Mandatory - Yes
  - Default Value - None
  - Validation - No
  - Field Type - Single select dropdown
- **Equipment\***
  - Users selects from dropdown the equipment, this list is dependant on the type of downtime type selected.
  - Mandatory - Yes
  - Default Value - None
  - Validation - No
  - Field Type - Single select dropdown
- **Reason\***
  - Users selects from dropdown the reason, this list is dependant on the type of downtime type selected.
  - Mandatory - Yes
  - Default Value - None
  - Validation - No
  - Field Type - Single select dropdown

**NOTE:** For Downtime Type, Equipment and Reason see the following document for the values. [Downtime Logsheet Dropdown Details.xlsx](#)

- **Comments:**
  - Users can input any additional comments.
  - Mandatory - No
  - Default Value - None
  - Field Validation - All (Including special characters), 100 characters

### **Action Buttons**

- **Action Buttons**
  - **Save:** Saves the record for that particular event
  - **Cancel:** Cancels the current operation and returns to the list screen

Furnace ID	Event ID	Start Date & Time	End Date & Time	Duration	Equipment
18	DT_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay
18	DT_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay

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**ADD SPLIT**

Furnace ID\*  
12

Split Start Date & Time\*  
16/04/2025 02:21 PM

Split End Date & Time\*  
DD/MM/YYYY hh:mm aa

Downtime Type\*  
Select

Equipment\*  
Select

Reason\*  
Select

Comments\*  
Enter Comments

Cancel Save

## 6. View Split

Once downtime splits are logged, they can be viewed by clicking the View icon. This allows users with appropriate permissions to see the full details of each split without the ability to edit or modify the information.

### Header

- Split ID : DT\_1\_SP\_1 | Close Icon

The following information is visible in read-only format

- Furnace ID**
- Split Start Date and Time:** Shows the timestamp when the split started.
- Duration:** Calculated value- difference between start and end time
- Split End Date and Time:** Shows the timestamp when the split ended.
- Downtime Type:** Displays the type whether planned, operational etc
- Equipment:** Displays the equipment that has the downtime
- Reason** Displays the reason for downtime.
- Comments:** Displays any user-provided notes, supporting special characters (max 100 characters)

Furnace ID	Event ID	Start Date & Time	End Date & Time	Duration	Equipment
18	DT_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay
18	DT_1	26/03/2025   02:55 PM	26/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay
Split ID	Start Date & Time	End Date & Time	Duration	Equipment	
DT_1_SP_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay	

Field	Value
Furnace ID	12
Split Start Date & Time	26-03-2025   02:55 PM
Duration	9 hrs 4 mins
Split End Date & Time	27-03-2025   12:00 AM
Downtime Type	Equipment
Breakdown Downtime	Casting Bay
Reason	Carousel
Comments	-----

## 6. Edit Split

Users with the necessary permissions can modify the details of downtime splits by clicking the Edit icon. This opens a slider where the fields (except the furnace ID) can be updated.

If more details or splits need to be added to a completed event, it can be reverted to pending.

**Header:** Split ID :DT\_1\_SP\_1| Close Icon

- **Furnace ID**
  - Non-editable and pre-populated with the existing value
  - Mandatory - Yes
  - Default value - No
  - Validation - No
- **Split Start Date & Time\***
  - Editable and pre-populated with the existing value.
  - Default value- Current Date and time will be displayed as default.
  - Mandatory: Yes
- **Split End Date & Time**
  - Editable and pre-populated with the existing value.
  - Default value- None
  - Mandatory: Yes
  - Validation -
    - The end time must be after the start time.
    - End time cannot be greater than current time
- **Downtime Type\***
  - Editable and pre-populated with the existing value.
  - Default value- None
  - Mandatory: Yes



- **Equipment\***
  - Editable and pre-populated with the existing value.
  - Mandatory - Yes
  - Default Value - None
  - Validation - No
- **Reason\***
  - Editable and pre-populated with the existing value.
  - Mandatory - Yes
  - Default Value - None
  - Validation - No
- **Comments:**
  - Editable and pre-populated with the existing value.
  - Mandatory - No
  - Default Value - None
  - Field Validation - All (Including special characters), 100 characters

### Action Buttons

- **Save:** Saves the record for that particular Split
- **Cancel:** Cancels the current operation and returns to the list screen

The screenshot displays the 'Furnace Downtime Log' interface. On the left, a table lists downtime events. The table has columns: Furnace ID, Event ID, Start Date & Time, End Date & Time, Duration, and Equipment. The data shows two events for Furnace ID 18, both with Event ID DT\_1, occurring on 26/03/2025 from 02:55 PM to 27/03/2025 at 12:00 AM, with a duration of 9 hrs 4 mins, and equipment 'Casting Bay'. Below the table, it says 'Showing 10 of 80'.

On the right, the 'EDIT SPLIT - DT\_1\_SP\_1' modal form is open. It contains the following fields:
 

- Furnace ID\*: 12 (dropdown)
- Split Start Date & Time\*: 26/03/2025 02:55 PM (calendar icon)
- Split End Date & Time\*: 27/03/2025 12:00 AM (calendar icon)
- Downtime Type\*: Breakdown Downtime (dropdown)
- Equipment\*: Casting Bay (dropdown)
- Reason\*: Carousel (dropdown)
- Comments\*: Enter Comments (text area)

 At the bottom right of the modal are 'Cancel' and 'Save' buttons.

## 6. Delete Split

Downtime splits can be deleted, a simple confirmation prompt appears to verify the deletion.

**Furnace Downtime Log** Completed: 5 Active: 35

Search: Filters

Furnace ID	Event ID	Start Date & Time	End Date & Time	Duration	Equipment	Reason	Status
18	DT_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay	Carousel	Completed
18	DT_1	26/03/2025   02:55 PM	26/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay	Carousel	Active
	Split ID	Start Date & Time	End Date & Time	Duration	Equipment	Reason	
	DT_1_SP_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay	Carousel	

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Delete Split

Are you sure you want to delete this Split "Split ID"?















Cancel Confirm

## 7. Filter List

- **Filters:**
  - Furnace ID -
    - Multiselect Dropdown
    - All furnaces for which event exists
  - Event Date and Time -
    - Date range picker
  - Downtime Type
    - Multiselect Dropdown
    - Values for which record exist
  - Equipment
    - Multiselect Dropdown
    - Values for which record exist
  - Reason
    - Multiselect Dropdown
    - Values for which record exist
  - Status -
    - Multiselect Dropdown:
    - Values: Completed | Active

**The applied filters will search in both even and split lists.**

**The default sorting of fields in filter need to be alphabetically/numerically sorted in ascending order.**

### Furnace Downtime Log

Completed 5
Active 35

Furnace ID	Event ID	Start Date & Time	End Date & Time	Duration	Equipment
18	DT_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay
▼ 18	DT_1	26/03/2025   02:55 PM	27/03/2025   12:00 AM	9 hrs 4 mins	Casting Bay

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FILTERS

Furnace ID

From

To

Downtime Type

Equipment

Reason

Status