

Da Vinci Smart Manufacturing

BRD S09.03 Log Book Furnace Downtime Log

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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.

The screenshot shows a user interface for managing furnace downtime logs. At the top, there are navigation icons and a search bar labeled 'Search' and 'Filters'. Below this is a table with the following data:

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		

At the bottom, there is a message 'Showing 10 of 80' and a 'Rows Per Page' dropdown set to 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 Logsheet 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

The screenshot shows a dashboard titled 'Furnace Downtime Log' with two tabs: 'Completed' (5) and 'Active' (35). A search bar and filter options are available. Below is a table of downtime events:

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	

Showing 10 of 80

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 two interface components. On the left is a table titled 'Furnace Downtime Log' with columns: Furnace ID, Event ID, Start Date & Time, End Date & Time, Duration, Equipment, and Reason. It lists several entries, including one for 'DT_1' from 26/03/2025 to 27/03/2025. On the right is a modal window titled 'VIEW EVENT - DT_2' with details for the same event: Furnace ID 12, Event Start Date & Time 14-04-2025 | 12:30 PM, Source Manual, Event End Date & Time 15-04-2025 | 12:00 AM, Duration 11 hrs 29 mins, Updated By super user, Equipment Casting Bay, Reason Carousel, Downtime Type Breakdown Downtime, and Status Active. The comments field is empty.

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 shows a software interface for managing furnace downtime. On the left is a sidebar with various icons. The main area is titled 'Furnace Downtime Log' and displays a table of events. The table columns include 'Furnace ID', 'Event ID', 'Start Date & Time', 'End Date & Time', 'Duration', and 'Equipment'. A search bar and filter options are also present. An event for 'DT_1' is selected, and a modal window titled 'EDIT EVENT - DT_2' is open on the right. This modal contains fields for 'Furnace ID*' (set to '12'), 'Source' (set to 'Automate'), 'Event Start Date & Time*' (set to '14/04/2025 12:30 PM'), 'Event End Date & Time' (set to '18/04/2025 12:30 PM'), 'Downtime Type*' (set to 'To be updated'), 'Equipment*' (set to 'To be updated'), 'Reason*' (set to 'To be updated'), and a 'Comments*' field. At the bottom of the modal 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.

The screenshot shows a table of downtime logs with two rows visible. The first row has a Furnace ID of 18 and an Event ID of DT_1, spanning from 26/03/2025 02:55 PM to 27/03/2025 12:00 AM with a duration of 9 hrs 4 mins. The second row is identical. A modal dialog titled "Delete Event" is open in the center, asking "Are you sure you want to delete this Event "Event ID""? It has "Cancel" and "Confirm" buttons.

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 ended. 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

The screenshot shows a software interface for managing furnace downtime. On the left, there's a sidebar with various icons. The main area has a header 'Furnace Downtime Log' with 'Completed' (5) and 'Active' (35) counts. Below this is a search bar and a filter section. A table lists downtime entries with columns: Furnace ID, Event ID, Start Date & Time, End Date & Time, Duration, and Equipment. One entry is selected, showing DT_1 from March 26, 2025, at 02:55 PM to March 27, 2025, at 12:00 AM, with a duration of 9 hrs 4 mins and equipment 'Casting Bay'. At the bottom of the list, it says 'Showing 10 of 80'. To the right, a modal window titled 'ADD SPLIT' is open, prompting for 'Furnace ID*' (set to 12), 'Split Start Date & Time*' (set to 16/04/2025 02:21 PM), 'Split End Date & Time*' (a date input field), 'Downtime Type*' (a dropdown menu), 'Equipment*' (a dropdown menu), 'Reason*' (a dropdown menu), and 'Comments*' (a text input field). There are 'Cancel' and 'Save' buttons at the bottom of the modal.

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)

The screenshot shows two windows side-by-side. The left window is titled 'Furnace Downtime Log' and displays a table of downtime events. The right window is titled 'VIEW SPLIT - DT_1_SP_1' and shows a detailed view of a specific split event.

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	Reason
DT_1_SP_1	26/03/2025 02:55 PM	27/03/2025 12:00 AM	9 hrs 4 mins	Casting Bay	Carousel

VIEW SPLIT - DT_1_SP_1

Furnace ID	Split Start Date & Time
12	26-03-2025 02:55 PM

Duration	Split End Date & Time
9 hrs 4 mins	27-03-2025 12:00 AM

Downtime Type	Equipment
Breakdown Downtime	Casting Bay

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 shows a dashboard with a sidebar containing various icons. The main area displays a table titled "Furnace Downtime Log" with columns: Furnace ID, Event ID, Start Date & Time, End Date & Time, Duration, and Equipment. There are two rows visible: one for furnace 18 with event DT_1 from 26/03/2025 02:55 PM to 27/03/2025 12:00 AM, and another for split DT_1_SP_1 with the same dates and duration. A search bar and filter icon are at the top of the table. To the right, a modal window titled "EDIT SPLIT - DT_1_SP_1" is open, showing fields for Furnace ID (12), Split Start Date & Time (26/03/2025 02:55 PM), Split End Date & Time (27/03/2025 12:00 AM), Downtime Type (Breakdown Downtime), Equipment (Casting Bay), Reason (Carousel), and Comments (Enter Comments). Buttons for "Cancel" and "Save" are at the bottom right of the modal.

6. Delete Split

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

The screenshot shows a table of furnace downtime logs. A modal window is open over the table, asking "Are you sure you want to delete this Split 'Split ID'?". The modal has two buttons: "Cancel" and "Confirm". The table rows include columns for Furnace ID, Event ID, Start Date & Time, End Date & Time, Duration, Equipment, Reason, and Status. One row is highlighted with a yellow background.

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
DT_1_SP_1		26/03/2025 02:55 PM	27/03/2025 12:00 AM	9 hrs 4 mins	Casting Bay	Carousel	

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

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	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: