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| General Information | |
| Use Case ID Number: 1-2 Generate Schedule  Subject Area: Scheduler Usage  Description: User wants to create a schedule automatically | Responsible Analyst : Brandon Westmoreland |

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| Requirements/Feature Trace | |
| **REQ#** | Requirements Name and / or Short Description |
| 1.2 | The user will have the option to programmatically generate a schedule. |

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| Revision History | | |
| Author | **Date** | **Comments** |
| Brandon Westmoreland | 10/20/15 | First Draft |
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| **Insertion Points in other Use Cases** | | |
| Use Case Name | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

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| **Actors** | | |
| **Actor Name** | **P/S** | **Brief Description** |
| Sheduling User | P | The user of the scheduling application. |
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| **Pre-Conditions** | |
| # | Description |
| 1 | Application opened by user |
| 2 | LumberTrack data has been loaded |

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| **Start Stimulus** |
| The user clicks “Generate coating schedule” |

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| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt UC Name/Number** | **Bus Rule(s)#** |
| 01 | Window for option priority selection opens |  | 1.2.1 |
| 02 | User reorders options for generation |  |  |
| 03 | User clicks generate |  |  |
| 04 | User selects a date range to generate |  |  |
| 05 | User clicks start generation |  |  |

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| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds/Alt Use Case #** |
| User date range not selected | User is prompted to select a valid date range |  |
| User date range end is before start | User is prompted to select a valid date range |  |

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| Post-Conditions | |
| **#** | **Description** |
| 1 | Schedule is generated |
| 2 | Schedule is displayed |

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| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| SchedulingUser | User of the system | Name, password, etc |
| ScheduleGen | Handles schedule generation | Priority list, date range |
| CoatingSchedule | Information about the schedule the user creates | Items,Date,Units to make |

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| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | User understands English. | 10/20/14 | Brandon Westmoreland |  |  |
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| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |
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| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |
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| Frequency of Execution |
| **Frequency:**  Minimum: 1 Maximum: 10 Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Day:  Other: |

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| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 5 | Minutes |  |  | 4 | Schedule generation should take a reasonable length of time. |
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| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| N/A |  |  |  |  |  |  |
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