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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.1 | | |
| **Use Case Name:** | Selection of switch has CTC type of Authority **UC36** | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch selected for position change is on CTC Track.  The switch is on manual operate mode and not in maintenance mode. | | |
| **Post Conditions:** | The position of the switch remains unchanged as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position. | System displays dialog box switch control not operational because the control point is currently in maintenance mode. | BNSF DB |
| Step 2 | User selects OK button. | System discards the current switch position request for change. |  |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.2 | | |
| **Use Case Name:** | Switch Selected Type | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch selected is not of type POS / RCPS  The switch may be of Electric lock | | |
| **Post Conditions:** | The position of the switch remains unchanged as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for the type of the switch selected is other than POS / SPMS. * System discards the current switch position request for change. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.3 | | |
| **Use Case Name:** | Selection of switch has device blocks | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch selected is consisting of device blocks. | | |
| **Post Conditions:** | The position of the switch remains unchanged as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for any device blocks. * System discards the current switch position request for change. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.4 | | |
| **Use Case Name:** | Compare control points between switch and track | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The control points are not equal between switch and track | | |
| **Post Conditions:** | The position of the switch remains unchanged as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System compares the control points between switch and track for equality / non equality. * System discards the current switch position request for change. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.5 | | |
| **Use Case Name:** | The switch selected track is the ending of the authority (To Milepost). | | |
| **Purpose:** | Functionality to change the switch position to normal on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch is in reverse position.  The switch selected track segment is the “To” Milepost authority.  The stop at switch(s) at reverse position (Box13) restriction has been enabled during the TWC Authority issue. | | |
| **Post Conditions:** | The position of the switch remains unchanged as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change from reverse to normal position. | * System checks for the authority issued. * System checks for the Box 13 restrictions * System displays the dialog box Respective switch has current permission to leave switch reverse. Cannot report it in a normal position at this time. | BNSF DB |
| Step 2 | User clicks on OK button | System discards the current switch position request for change. |  |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.6 | | |
| **Use Case Name:** | Selected switch consisting of switch lock. | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch selected for change of position has switch locks. | | |
| **Post Conditions:** | The position of the switch remains unchanged as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for switch locks. * System discards the current switch position request for change. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.7 | | |
| **Use Case Name:** | The switch has authorities with RCPS switch type. | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch has authorities issued.  The authorities issued is not of ItemFourToMOW.  The type of switch selected is RCPS.  The switch has indication status | | |
| **Post Conditions:** | The position of the switch is changed as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for authorities issued. * System checks type of switch is RCPS. * System displays dialog box switch at control point has track authority issued over it .Are you sure it is safe to proceed? | BNSF DB |
| Step 2 | User clicks on YES as a confirmation to proceed. | * System checks for indication status. * System updates the switch position request. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.8 | | |
| **Use Case Name:** | The switch has time permit. | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch has time permit.  The reverse control time and the current time is not short of 3 sec. | | |
| **Post Conditions:** | The position of the switch is changed as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for time permit. * System displays dialog box a switch at control point has authority issued over it. Are you sure it is safe to proceed? | BNSF DB |
| Step 2 | User clicks on YES as a confirmation to proceed. | * System compares reverse control time and current time is not short of 3 sec. * System updates the switch position request. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.9 | | |
| **Use Case Name:** | The switch selected for position change from normal. | | |
| **Purpose:** | Functionality to change the switch position to reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch selected is on NON-CTC track  The switch is in normal position  The switch selected is not of type POS / RCPS / Electric lock  The switch does not have device blocks / route locks / switch locks.  The control points between the switch and track are equal | | |
| **Post Conditions:** | The position of the switch is changed as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for position of the switch is normal. * System displays dialog box a switch has been selected for reverse position switch will be protected until verified in the normal position. | BNSF DB |
| Step 2 | User clicks on YES as a confirmation to proceed. | System updates the switch position request. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.9 | | |
| **Use Case Name:** | The switch selected for position change from reverse. | | |
| **Purpose:** | Functionality to change the switch position to normal on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch selected is on NON-CTC track  The switch is in reverse position  The switch selected is not of type POS / RCPS / Electric lock  The switch does not have device blocks / route locks / switch locks.  The control points between the switch and track are equal  The switch selected track is not the “To” Milepost of authority / the authority is disabled with Box 13 restrictions. | | |
| **Post Conditions:** | The position of the switch is changed as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for position of the switch is reverse. * System checks for authority issued and Box 13 restrictions * System displays the prompt box for confirmation to proceed for normal position. | BNSF DB |
| Step 2 | User selects the Engine ID from dropdown verifying the switch position | System checks for the Valid Engine ID | BNSF DB |
| Step 3 | User clicks on the OK | System displays Switch normal verification form with confirmation for restoration to normal position. |  |
| Step 4 | User click on Yes as a confirmation | System updates the switch position request. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.10 | | |
| **Use Case Name:** | The switch has Do not exceed (Box 11) restrictions. | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch has Do not exceed (Box 11) restrictions.  The switch status is existing. | | |
| **Post Conditions:** | The position of the switch is changed as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for the do not exceed restrictions. * System sets the switch out / in of correspondence on normal / reverse control. | BNSF DB |
| Step 2 | User clicks on YES as a confirmation to proceed. | * System compares reverse control time and current time is not short of 3 sec. * System updates the switch position request. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.11 | | |
| **Use Case Name:** | The switch has fail state. | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The switch has fail state.  The switch has directional loads present. | | |
| **Post Conditions:** | The position of the switch is changed as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for the switch fail state. * System sets the switch out / in of correspondence on normal / reverse control. * System updates stop at switch(s) (Box 12). * System updates the switch position request. | BNSF DB |

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| Use Case Identification and History | | | |
| Use Case ID: | UCD-REQ-019.12 | | |
| **Use Case Name:** | The switch has not track authority of type TT / TP / TA. | | |
| **Purpose:** | Functionality to change the switch position to normal / reverse on NON – CTC track segments. | | |
| **User/Actor:** | Dispatcher / RTC | | |
| **Business Owner Name:** | BNSF | Contact Details: | TBD |
| **Trigger:** | Dispatcher/ RTC selects any switch on Non-CTC track. | | |
| **Frequency of Use:** | Regular | | |
| **Preconditions:** | The track authority type is not TT / TP / TA. | | |
| **Post Conditions:** | The position of the switch remains unchanged as requested by the Dispatcher/ RTC. | | |
| **Assumptions:** | N/A | | |

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| **BASIC FLOW -** | | | |
| **Step** | **User Action** | **System Action** | **Data Source** |
| Step 1 | Dispatcher / RTC selects any switch to request change in position | * System checks for the type of track authority * System discards the current switch position request for change. | BNSF DB |