Hall Reply Declaration Exhibit D

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compare two versions of QSI_Electric
JMRI version and date:
Line 7: <version author="Howard G. Penny" version="1" lastUpdated="20050616"/>
KAM version and date:
Line 4: <DATE_MODIFIED>20050616</DATE_MODIFIED>
          <TPL VERSION>1</TPL VERSION>
Line 7:
Variable named: Primary Address
KAM line 36:
                   <NAME>Primary Address</NAME>
Variable named: Vstart
Variable named: Acceleration Rate
JMRI line 27:  <variable label="Acceleration Rate" CV="3" item="Accel" >
 KAM line 76:
                  <NAME>Acceleration Rate
Variable named: Deceleration Rate
JMRI line 29: <variable label="Deceleration Rate" CV="4" item="Decel">
 KAM line 96:
                  <NAME>Deceleration Rate
Variable named: Max Volts
KAM line 116:
                   <NAME>Max Volts</NAME>
Variable named: Manufacturer Version No
JMRI line 35: <variable label="Manufacturer Version No" CV="7" readOnly="yes"</pre>
 KAM line 136:
                   <NAME>Manufacturer Version No</NAME>
Variable named: Manufacturer ID
JMRI line 37: <variable label="Manufacturer ID" CV="8" readOnly="yes"</pre>
 KAM line 156:
                   <NAME>Manufacturer ID</NAME>
Variable named: Packet Time-out Value
JMRI line 40: <variable label="Packet Time-out Value" CV="11">
                   <NAME>Packet Time-out Value</NAME>
 KAM line 176:
Variable named: Extended Address
KAM line 196:
                   <NAME>Extended Address</NAME>
Variable named: Consist Address
Address">
 KAM line 216: <NAME>Consist Address</NAME>
Variable named: Consist Address Active For F1
JMRI line 55: <variable label="Consist Address Active For F1" CV="21" mask="XXXXXXXV"</pre>
 KAM line 236:
                   <NAME>Consist Address Active For F1</NAME>
Variable named: Consist Address Active For FL in Forward
mask="XXXXXXXV"
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<NAME>Consist Address Active For FL in Forward/NAME>

KAM line 256:

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Variable named: Consist Acceleration Adjustment
KAM line 276:
                      <NAME>Consist Acceleration Adjustment</NAME>
Variable named: Consist Deceleration Adjustment
 JMRI line 149: <variable label="Consist Deceleration Adjustment" CV="24" mask="XVVVVVVV">
 KAM line 296:
                      <NAME>Consist Deceleration Adjustment</NAME>
Variable named: Quantum Speed Table
JMRI line 158: <variable label="Quantum Speed Table" CV="25" item="Speed Table Selection"
                      <NAME>Quantum Speed Table</NAME>
 KAM line 316:
  selection "User Defined Speed Table"
     JMRI line 161: <enumChoice choice="User Defined Speed Table" value="1"/>
      KAM line 331:
                            <BitName>User Defined Speed Table
  selection "Linear Curve"
     JMRI line 162:
                        <enumChoice choice="Linear Curve"/>
                            <BitName>Linear Curve</BitName>
      KAM line 332:
  selection "Fast start 1 (close to linear)"
     JMRI line 163: <enumChoice choice="Fast start 1 (close to linear)"/>
      KAM line 333:
                            <BitName>Fast start 1 (close to linear)
  selection "Fast start 2"
     KAM line 334:
                            <BitName>Fast start 2</BitName>
  selection "Fast start 3"
     JMRI line 165:
                        <enumChoice choice="Fast start 3"/>
      KAM line 335:
                            <BitName>Fast start 3</BitName>
  selection "Fast start 4"
     KAM line 336:
                            <BitName>Fast start 4</BitName>
  selection "Fast start 5 (greatest curvature)"
     JMRI line 167:
                        <enumChoice choice="Fast start 5 (greatest curvature)"/>
      KAM line 337:
                            <BitName>Fast start 5 (greatest curvature)
  selection "Slow start 1 (close to linear)"
     JMRI line 168: <enumChoice choice="Slow start 1 (close to linear)" value="67"/>
      KAM line 338:
                            <BitName>Slow start 1 (close to linear)
  selection "Slow start 2"
     JMRI line 169:
                        <enumChoice choice="Slow start 2"/>
      KAM line 339:
                            <BitName>Slow start 2</BitName>
  selection "Slow start 3"
     <BitName>Slow start 3</BitName>
      KAM line 340:
  selection "Slow start 4"
     JMRI line 171:
                        <enumChoice choice="Slow start 4"/>
                            <BitName>Slow start 4</BitName>
      KAM line 341:
  selection "Slow start 5 (greatest curavture"
     JMRI line 172:
                         <enumChoice choice="Slow start 5 (greatest curavture"/>
      KAM line 342:
                            <BitName>Slow start 5 (greatest curavture
Variable named: Locomotive Direction
JMRI line 176: <variable label="Locomotive Direction" CV="29" mask="XXXXXXXV">
 KAM line 349:
                      <NAME>Locomotive Direction</NAME>
Variable named: FL(f) controls output 1
JMRI line 212: <variable label="FL(f) controls output 1" CV="33" mask="XXXXXXXV" minOut="1"
default="1"> <enumVal>
 KAM line 369:
                      <NAME>FL(f) controls output 1</NAME>
Variable named: FL(r) controls output 1
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<variable label="FL(r) controls output 1" CV="34" mask="XXXXXXXV" minOut="1"</pre>
JMRI line 229:
default="1"> <enumVal>
 KAM line 389:
                    <NAME>FL(r) controls output 1</NAME>
Variable named: F1 controls output 1
minFn="1"> <enumVal>
 KAM line 409:
                    <NAME>F1 controls output 1</NAME>
Variable named: F2 controls output 1
minFn="2"> <enumVal>
 KAM line 429:
                   <NAME>F2 controls output 1</NAME>
Variable named: F3 controls output 1
JMRI line 280: <variable label="F3 controls output 1" CV="37" mask="XXXXXXXV" minOut="1"
minFn="3"> <enumVal>
 KAM line 449:
                   <NAME>F3 controls output 1</NAME>
Variable named: F4 controls output 4
JMRI line 297: <variable label="F4 controls output 4" CV="38" mask="XXXXXXXV" minOut="4"</pre>
minFn="4"> <enumVal>
 KAM line 469:
                   <NAME>F4 controls output 4</NAME>
Variable named: F5 controls output 4
minFn="5"> <enumVal>
 KAM line 489:
                    <NAME>F5 controls output 4</NAME>
Variable named: F6 controls output 4
JMRI line 331: <variable label="F6 controls output 4" CV="40" mask="XXXXXXXV" minOut="4"
minFn="6"> <enumVal>
 KAM line 509:
                    <NAME>F6 controls output 4</NAME>
Variable named: F7 controls output 4
minFn="7"> <enumVal>
 KAM line 529:
                   <NAME>F7 controls output 4</NAME>
Variable named: F8 controls output 4
minFn="8"> <enumVal>
 KAM line 549:
                   <NAME>F8 controls output 4</NAME>
Variable named: F9 controls output 7
JMRI line 382: <variable label="F9 controls output 7" CV="43" mask="XXXXXXXV" minOut="7"
minFn="9"> <enumVal>
 KAM line 569:
                   <NAME>F9 controls output 7</NAME>
Variable named: F10 controls output 7
JMRI line 399: <variable label="F10 controls output 7" CV="44" mask="XXXXXXXV" minOut="7"</pre>
minFn="10"> <enumVal>
 KAM line 589:
                   <NAME>F10 controls output 7</NAME>
Variable named: F11 controls output 7
minFn="11"> <enumVal>
 KAM line 609:
                   <NAME>F11 controls output 7</NAME>
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Variable named: F12 controls output 7
minFn="12"> <enumVal>
 KAM line 629:
                       <NAME>F12 controls output 7</NAME>
Variable named: System Volume
JMRI line 482: <ivariable label="System Volume" CVname="51.0" CV="51" PI="0" default="127"
comment="QSI" item="CV51.0">
 KAM line 649:
                       <NAME>System Volume</NAME>
Variable named: Horn
JMRI line 495: <ivariable label="Horn" CVname="52.0" CV="52" PI="0" default="11"
comment="QSI" item="CV52.0">
 KAM line 669:
                       <NAME>Horn</NAME>
Variable named: Outout 10 - Forward/Reverse Only
JMRI line 849: <ivariable label="Outout 10 - Forward/Reverse Only" CVname="53.10.0" CV="53"
PI="10" SI="0"
 KAM line 689:
                       <NAME>Outout 10 - Forward/Reverse Only</NAME>
  selection "Dynamic Brakes"
     JMRI line 852:
                          <ienumChoice choice="Dynamic Brakes" value="5"/>
      KAM line 704:
                              <BitName>Dynamic Brakes</BitName>
  selection "Long Air Let-off"
     JMRI line 853: <ienumChoice choice="Long Air Let-off" value="9"/>
      KAM line 705:
                              <BitName>Long Air Let-off
  selection "Short Air Let-off"
     JMRI line 854: <ienumChoice choice="Short Air Let-off"/>
      KAM line 706:
                              <BitName>Short Air Let-off</BitName>
  selection "Mute"
     JMRI line 855: <ienumChoice choice="Mute" value="64"/>
      KAM line 707:
                              <BitName>Mute</BitName>
  selection "Doppler Shift"
     JMRI line 856: <ienumChoice choice="Doppler Shift"/>
                              <BitName>Doppler Shift</BitName>
      KAM line 708:
  selection "Headlight"
     JMRI line 857:
                         <ienumChoice choice="Headlight" value="98"/>
      KAM line 709:
                              <BitName>Headlight</BitName>
  selection "Dim Headlight"
     JMRI line 858: <ienumChoice choice="Dim Headlight"/>
      KAM line 710:
                              <BitName>Dim Headlight
  selection "Reverse Light"
     JMRI line 859: <ienumChoice choice="Reverse Light"/>
KAM line 711: <BitName>Reverse Light</BitName>
      KAM line 711:
                              <BitName>Reverse Light
  selection "Automatic Cab Lights"
     JMRI line 860:
                         <ienumChoice choice="Automatic Cab Lights"/>
      KAM line 712:
                              <BitName>Automatic Cab Lights
  selection "Directional Mars Light"
     JMRI line 861: <ienumChoice choice="Directional Mars Light"/>
      KAM line 713:
                              <BitName>Directional Mars Light
  selection "Mars Light"
                   <ienumChoice choice="Directional Mars Light"/>
     JMRI line 861:
      KAM line 714:
                              <BitName>Mars Light
  selection "Strobe Mars Light"
     JMRI line 863: <ienumChoice choice="Strobe Mars Light"/>
      KAM line 715:
                             <BitName>Strobe Mars Light</BitName>
  selection "Number Board Lights"
                   <ienumChoice choice="Number Board Lights"/>
     JMRI line 864:
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KAM line 716:
                              <BitName>Number Board Lights
  selection "Directional Headlight + Directional Mars Light"
     JMRI line 865: <ienumChoice choice="Directional Headlight + Directional Mars
Light" value="107"/>
                              <BitName>Directional Headlight + Directional Mars
      KAM line 717:
Light</BitName>
  selection "Directional Headlight + Directional Ditch Lights"
     JMRI line 866: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 718:
                              <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
  selection "Directional Ditch Lights"
     JMRI line 866: <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
      KAM line 719:
                              <BitName>Directional Ditch Lights
  selection "Ditch Lights"

JMRI line 866: <ienumChoice choice="Directional Headlight + Directional Ditch"
Lights"/>
      KAM line 720:
                              <BitName>Ditch Lights
  selection "Stobe Ditch Lights"
     JMRI line 869: <ienumChoice choice="Stobe Ditch Lights"/>
                              <BitName>Stobe Ditch Lights
      KAM line 721:
  selection "Cruise Control"
     selection "Scale mph Report and Status Report"
     JMRI line 871: <ienumChoice choice="Scale mph Report and Status Report"/>
      KAM line 723:
                              <BitName>Scale mph Report and Status Report/BitName>
  selection "Coupler Effect"
     JMRI line 872: <ienumChoice choice="Coupler Effect" value="211"/>
      KAM line 724:
                              <BitName>Coupler Effect
  selection "Squealing Brakes"
     JMRI line 873: <ienumChoice choice="Squealing Brakes" value="215"/>
      KAM line 725:
                              <BitName>Squealing Brakes/BitName>
  selection "Squealing Brakes + Air Brakes"
     JMRI line 874: <ienumChoice choice="Squealing Brakes + Air Brakes"/>
      KAM line 726:
                              <BitName>Squealing Brakes + Air Brakes
Variable named: - Neutral Only
 JMRI line 522: <ivariable label=" - Neutral Only" CVname="53.1.1" CV="53" PI="1" SI="1"
 KAM line 733:
                       <NAME> - Neutral Only</NAME>
Variable named: Outout 11 - Forward/Reverse Only
 JMRI line 905: <ivariable label="Outout 11 - Forward/Reverse Only" CVname="53.11.0" CV="53"
PI="11" SI="0"
 KAM line 776:
                       <NAME>Outout 11 - Forward/Reverse Only</NAME>
  selection "Dynamic Brakes"
     JMRI line 908:
                          <ienumChoice choice="Dynamic Brakes" value="5"/>
      KAM line 791:
                              <BitName>Dynamic Brakes</BitName>
  selection "Long Air Let-off"
     JMRI line 909: <ienumChoice choice="Long Air Let-off" value="9"/>
      KAM line 792:
                              <BitName>Long Air Let-off
  selection "Short Air Let-off"
                    <ienumChoice choice="Short Air Let-off"/>
     JMRI line 910:
      KAM line 793:
                              <BitName>Short Air Let-off</BitName>
  selection "Mute"
     JMRI line 911: <ienumChoice choice="Mute" value="64"/>
      KAM line 794:
                              <BitName>Mute</BitName>
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selection "Doppler Shift"
     JMRI line 912:
                           <ienumChoice choice="Doppler Shift"/>
      KAM line 795:
                               <BitName>Doppler Shift
   selection "Headlight"
                           <ienumChoice choice="Headlight" value="98"/>
     JMRI line 913:
      KAM line 796:
                               <BitName>Headlight</BitName>
   selection "Dim Headlight"
     JMRI line 914:
                           <ienumChoice choice="Dim Headlight"/>
      KAM line 797:
                               <BitName>Dim Headlight</BitName>
   selection "Reverse Light"
     JMRI line 915:
                           <ienumChoice choice="Reverse Light"/>
      KAM line 798:
                               <BitName>Reverse Light
   selection "Automatic Cab Lights"
                       <ienumChoice choice="Automatic Cab Lights"/>
     JMRI line 916:
      KAM line 799:
                               <BitName>Automatic Cab Lights
   selection "Directional Mars Light"
     JMRI line 917: <ienumChoice choice="Directional Mars Light"/>
                               <BitName>Directional Mars Light
      KAM line 800:
   selection "Mars Light"
                           <ienumChoice choice="Directional Mars Light"/>
     JMRI line 917:
      KAM line 801:
                               <BitName>Mars Light</BitName>
   selection "Strobe Mars Light"
     JMRI line 919:
                           <ienumChoice choice="Strobe Mars Light"/>
      KAM line 802:
                               <BitName>Strobe Mars Light
   selection "Number Board Lights"
                    <ienumChoice choice="Number Board Lights"/>
     JMRI line 920:
      KAM line 803:
                               <BitName>Number Board Lights
   selection "Directional Headlight + Directional Mars Light"
                      <ienumChoice choice="Directional Headlight + Directional Mars</pre>
     JMRI line 921:
Light" value="107"/>
      KAM line 804:
                               <BitName>Directional Headlight + Directional Mars
Light</BitName>
   selection "Directional Headlight + Directional Ditch Lights"
     JMRI line 922:
                     <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
      KAM line 805:
                               <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
   selection "Directional Ditch Lights"
     JMRI line 922:
                           <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
      KAM line 806:
                               <BitName>Directional Ditch Lights
   selection "Ditch Lights"
     JMRI line 922:
                           <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
      KAM line 807:
                               <BitName>Ditch Lights</BitName>
   selection "Stobe Ditch Lights"
     JMRI line 925:
                           <ienumChoice choice="Stobe Ditch Lights"/>
      KAM line 808:
                               <BitName>Stobe Ditch Lights
   selection "Cruise Control"
     JMRI line 926:
                          <ienumChoice choice="Cruise Control" value="177"/>
      KAM line 809:
                               <BitName>Cruise Control</BitName>
   selection "Scale mph Report and Status Report"
     JMRI line 927:
                           <ienumChoice choice="Scale mph Report and Status Report"/>
      KAM line 810:
                               <BitName>Scale mph Report and Status Report/BitName>
   selection "Coupler Effect"
     JMRI line 928:
                           <ienumChoice choice="Coupler Effect" value="211"/>
                               <BitName>Coupler Effect
      KAM line 811:
   selection "Squealing Brakes"
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JMRI line 929:
KAM line 812:
                           <ienumChoice choice="Squealing Brakes" value="215"/>
                              <BitName>Squealing Brakes/BitName>
  selection "Squealing Brakes + Air Brakes"
     JMRI line 930: <ienumChoice choice="Squealing Brakes + Air Brakes"/>
      KAM line 813:
                               <BitName>Squealing Brakes + Air Brakes
Variable named: - Neutral Only
 JMRI line 535: <ivariable label=" - Neutral Only" CVname="53.2.1" CV="53" PI="2" SI="1"
 KAM line 820:
                        <NAME> - Neutral Only</NAME>
Variable named: Outout 9 - Forward/Reverse Only
JMRI line 793: <ivariable label="Outout 9 - Forward/Reverse Only" CVname="53.9.0" CV="53"
PI="9" SI="0"
  KAM line 863:
                        <NAME>Outout 9 - Forward/Reverse Only</NAME>
  selection "Dynamic Brakes"
     JMRI line 796:
                          <ienumChoice choice="Dynamic Brakes" value="5"/>
      KAM line 878:
                               <BitName>Dynamic Brakes
  selection "Long Air Let-off"
     JMRI line 797: <ienumChoice choice="Long Air Let-off" value="9"/>
                              <BitName>Long Air Let-off
      KAM line 879:
  selection "Short Air Let-off"
     JMRI line 798: <ienumChoice choice="Short Air Let-off"/>
      KAM line 880:
                              <BitName>Short Air Let-off</BitName>
  selection "Mute"
     JMRI line 799: <ienumChoice choice="Mute" value="64"/>
      KAM line 881:
                               <BitName>Mute</BitName>
  selection "Doppler Shift"
     JMRI line 800: <ienumChoice choice="Doppler Shift"/>
      KAM line 882:
                              <BitName>Doppler Shift
  selection "Headlight"
     JMRI line 801:
                         <ienumChoice choice="Headlight" value="98"/>
      KAM line 883:
                               <BitName>Headlight</BitName>
  selection "Dim Headlight"
     JMRI line 802: <ienumChoice choice="Dim Headlight"/>
      KAM line 884:
                              <BitName>Dim Headlight</BitName>
  selection "Reverse Light"
     JMRI line 803: <ienumChoice choice="Reverse Light"/>
      KAM line 885:
                              <BitName>Reverse Light
  selection "Automatic Cab Lights"
     JMRI line 804: <ienumChoice choice="Automatic Cab Lights"/>
      KAM line 886:
                              <BitName>Automatic Cab Lights
  selection "Directional Mars Light"
     JMRI line 805: <ienumChoice choice="Directional Mars Light"/>
      KAM line 887:
                              <BitName>Directional Mars Light
  selection "Mars Light"
     JMRI line 805: <ienumChoice choice="Directional Mars Light"/>
      KAM line 888:
                             <BitName>Mars Light</BitName>
  selection "Strobe Mars Light"
     JMRI line 807: <ienumChoice choice="Strobe Mars Light"/>
      KAM line 889:
                              <BitName>Strobe Mars Light
  selection "Number Board Lights"
     JMRI line 808: <ienumChoice choice="Number Board Lights"/>
      KAM line 890:
                               <BitName>Number Board Lights</BitName>
  selection "Directional Headlight + Directional Mars Light"
     JMRI line 809: <ienumChoice choice="Directional Headlight + Directional Mars
Light" value="107"/>
      KAM line 891:
                              <BitName>Directional Headlight + Directional Mars
Light</BitName>
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selection "Directional Headlight + Directional Ditch Lights"
     JMRI line 810: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 892:
                               <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
   selection "Directional Ditch Lights"
     JMRI line 810: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 893:
                               <BitName>Directional Ditch Lights
   selection "Ditch Lights"
     JMRI line 810: <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
      KAM line 894:
                               <BitName>Ditch Lights
   selection "Stobe Ditch Lights"
     JMRI line 813: <ienumChoice choice="Stobe Ditch Lights"/>
      KAM line 895:
                               <BitName>Stobe Ditch Lights
   selection "Cruise Control"
     JMRI line 814: <ienumChoice choice="Cruise Control" value="177"/>
      KAM line 896:
                               <BitName>Cruise Control</BitName>
   selection "Scale mph Report and Status Report"
     JMRI line 815: <ienumChoice choice="Scale mph Report and Status Report"/>
      KAM line 897:
                               <BitName>Scale mph Report and Status Report/BitName>
   selection "Coupler Effect"
     JMRI line 816: <ienumChoice choice="Coupler Effect" value="211"/>
KAM line 898: <BitName>Coupler Effect</BitName>
   selection "Squealing Brakes"
     JMRI line 817: <ienumChoice choice="Squealing Brakes" value="215"/>
      KAM line 899:
                               <BitName>Squealing Brakes/BitName>
   selection "Squealing Brakes + Air Brakes"
     KAM line 900:
                               <BitName>Squealing Brakes + Air Brakes/BitName>
Variable named: - Neutral Only
                <ivariable label=" - Neutral Only" CVname="53.3.1" CV="53" PI="3" SI="1"</pre>
 JMRI line 548:
 KAM line 907:
                        <NAME> - Neutral Only</NAME>
Variable named: - Neutral Only
JMRI line 562: <ivariable label=" - Neutral Only" CVname="53.4.1" CV="53" PI="4" SI="1"
 KAM line 950:
                        <NAME> - Neutral Only</NAME>
Variable named: - Neutral Only
JMRI line 597: <ivariable label=" - Neutral Only" CVname="53.5.1" CV="53" PI="5" SI="1"
 KAM line 993:
                        <NAME> - Neutral Only</NAME>
Variable named: Outout 14 - Forward/Reverse Only
 JMRI line 1073: <ivariable label="Outout 14 - Forward/Reverse Only" CVname="53.14.0"
CV="53" PI="14" SI="0"
                   <NAME>Outout 14 - Forward/Reverse Only</NAME>
 KAM line 1036:
   selection "Dynamic Brakes"
     JMRI line 1076:
                            <ienumChoice choice="Dynamic Brakes" value="5"/>
      KAM line 1051:
                                <BitName>Dynamic Brakes
   selection "Long Air Let-off"
     JMRI line 1077: <ienumChoice choice="Long Air Let-off" value="9"/>
KAM line 1052: <BitName>Long Air Let-off</BitName>
      KAM line 1052:
                                <BitName>Long Air Let-off</BitName>
   selection "Short Air Let-off"
     JMRI line 1078: <ienumChoice choice="Short Air Let-off"/>
      KAM line 1053:
                             <BitName>Short Air Let-off</BitName>
   selection "Mute"
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JMRI line 1079:
                            <ienumChoice choice="Mute" value="64"/>
      KAM line 1054:
                                <BitName>Mute</BitName>
   selection "Doppler Shift"
     JMRI line 1080:
                            <ienumChoice choice="Doppler Shift"/>
      KAM line 1055:
                                <BitName>Doppler Shift</BitName>
   selection "Headlight"
     JMRI line 1081:
                            <ienumChoice choice="Headlight" value="98"/>
      KAM line 1056:
                                <BitName>Headlight</BitName>
   selection "Dim Headlight"
     JMRI line 1082:
                            <ienumChoice choice="Dim Headlight"/>
      KAM line 1057:
                                <BitName>Dim Headlight</BitName>
   selection "Reverse Light"
     JMRI line 1083:
                            <ienumChoice choice="Reverse Light"/>
      KAM line 1058:
                                <BitName>Reverse Light
   selection "Automatic Cab Lights"
     JMRI line 1084:
                            <ienumChoice choice="Automatic Cab Lights"/>
      KAM line 1059:
                                <BitName>Automatic Cab Lights
   selection "Directional Mars Light"
     JMRI line 1085: <ienumChoice choice="Directional Mars Light"/>
      KAM line 1060:
                                <BitName>Directional Mars Light
   selection "Mars Light"
     JMRI line 1085:
                            <ienumChoice choice="Directional Mars Light"/>
      KAM line 1061:
                                <BitName>Mars Light</BitName>
   selection "Strobe Mars Light"
     JMRI line 1087:
                            <ienumChoice choice="Strobe Mars Light"/>
      KAM line 1062:
                                <BitName>Strobe Mars Light
   selection "Number Board Lights"
     JMRI line 1088: <ienumChoice choice="Number Board Lights"/>
      KAM line 1063:
                                <BitName>Number Board Lights
   selection "Directional Headlight + Directional Mars Light"
                        <ienumChoice choice="Directional Headlight + Directional Mars</pre>
     JMRI line 1089:
Light" value="107"/>
      KAM line 1064:
                                <BitName>Directional Headlight + Directional Mars
Light</BitName>
   selection "Directional Headlight + Directional Ditch Lights"
     JMRI line 1090: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 1065:
                                <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
   selection "Directional Ditch Lights"
     JMRI line 1090: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
                                <BitName>Directional Ditch Lights
      KAM line 1066:
   selection "Ditch Lights"
                            <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
     JMRI line 1090:
Lights"/>
      KAM line 1067:
                                <BitName>Ditch Lights
   selection "Stobe Ditch Lights"
     JMRI line 1093:
                            <ienumChoice choice="Stobe Ditch Lights"/>
      KAM line 1068:
                                <BitName>Stobe Ditch Lights
   selection "Cruise Control"
     JMRI line 1094:
                            <ienumChoice choice="Cruise Control" value="177"/>
      KAM line 1069:
                                <BitName>Cruise Control</BitName>
   selection "Scale mph Report and Status Report"
     JMRI line 1095:
                            <ienumChoice choice="Scale mph Report and Status Report"/>
      KAM line 1070:
                                <BitName>Scale mph Report and Status Report/BitName>
   selection "Coupler Effect"
                            <ienumChoice choice="Coupler Effect" value="211"/>
     JMRI line 1096:
```

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KAM line 1071:
                                                          <BitName>Coupler Effect
     selection "Squealing Brakes"
          JMRI line 1097: <ienumChoice choice="Squealing Brakes" value="215"/>
KAM line 1072: <BitName>Squealing Brakes</BitName>
     selection "Squealing Brakes + Air Brakes"
          JMRI line 1098: <ienumChoice choice="Squealing Brakes + Air Brakes"/>
           KAM line 1073:
                                                          <BitName>Squealing Brakes + Air Brakes</BitName>
Variable named: - Neutral Only
                              <ivariable label=" - Neutral Only" CVname="53.6.1" CV="53" PI="6" SI="1"</pre>
 JMRI line 653:
   KAM line 1080:
                                              <NAME> - Neutral Only</NAME>
Variable named: Outout 12 - Forward/Reverse Only
 JMRI line 961: <ivariable label="Outout 12 - Forward/Reverse Only" CVname="53.12.0" CV="53"
PI="12" SI="0"
   KAM line 1123:
                                              <NAME>Outout 12 - Forward/Reverse Only</NAME>
     selection "Dynamic Brakes"
          JMRI line 964:
                                                 <ienumChoice choice="Dynamic Brakes" value="5"/>
            KAM line 1138:
                                                          <BitName>Dynamic Brakes
     selection "Long Air Let-off"
          JMRI line 965: <ienumChoice choice="Long Air Let-off" value="9"/>
            KAM line 1139:
                                                          <BitName>Long Air Let-off</BitName>
     selection "Short Air Let-off"
          JMRI line 966: <ienumChoice choice="Short Air Let-off"/>
            KAM line 1140:
                                                          <BitName>Short Air Let-off</BitName>
     selection "Mute"
                                    <ienumChoice choice="Mute" value="64"/>
          JMRI line 967:
            KAM line 1141:
                                                          <BitName>Mute</BitName>
     selection "Doppler Shift"
          JMRI line 968: <ienumChoice choice="Doppler Shift"/>
           KAM line 1142:
                                                          <BitName>Doppler Shift</BitName>
     KAM line 1143:
                                                          <BitName>Headlight</BitName>
     selection "Dim Headlight"
          JMRI line 970: <ienumChoice choice="Dim Headlight"/>
           KAM line 1144:
                                                          <BitName>Dim Headlight</BitName>
     selection "Reverse Light"
          JMRI line 971: <ienumChoice choice="Reverse Light"/>
KAM line 1145: <BitName>Reverse Light</BitName>
                                                          <BitName>Reverse Light
     selection "Automatic Cab Lights"
          JMRI line 972:
                                    <ienumChoice choice="Automatic Cab Lights"/>
            KAM line 1146:
                                                          <BitName>Automatic Cab Lights
     selection "Directional Mars Light"
          JMRI line 973: <ienumChoice choice="Directional Mars Light"/>
KAM line 1147: <BitName>Directional Mars Light</BitName>
     Selection "Mars Light"

JMRI line 973: <e href="mailto:center-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-black-noise-blac
                                                          <BitName>Mars Light</BitName>
     selection "Strobe Mars Light"
          JMRI line 975: <ienumChoice choice="Strobe Mars Light"/>
           KAM line 1149:
                                                          <BitName>Strobe Mars Light
     selection "Number Board Lights"
                                        <ienumChoice choice="Number Board Lights"/>
          JMRI line 976:
                                                          <BitName>Number Board Lights
           KAM line 1150:
     selection "Directional Headlight + Directional Mars Light"
          JMRI line 977: <ienumChoice choice="Directional Headlight + Directional Mars
Light" value="107"/>
```

```
KAM line 1151:
                                 <BitName>Directional Headlight + Directional Mars
Light</BitName>
   selection "Directional Headlight + Directional Ditch Lights"
      JMRI line 978: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 1152:
                                 <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
   selection "Directional Ditch Lights"
      JMRI line 978:
                      <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
                                 <BitName>Directional Ditch Lights
      KAM line 1153:
   selection "Ditch Lights"
     JMRI line 978: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 1154:
                                 <BitName>Ditch Lights</BitName>
   selection "Stobe Ditch Lights"
      JMRI line 981: <ienumChoice choice="Stobe Ditch Lights"/>
      KAM line 1155:
                                 <BitName>Stobe Ditch Lights
   selection "Cruise Control"
      JMRI line 982: <ienumChoice choice="Cruise Control" value="177"/>
      KAM line 1156:
                                 <BitName>Cruise Control</BitName>
   selection "Scale mph Report and Status Report"
     JMRI line 983: <ienumChoice choice="Scale mph Report and Status Report"/>
KAM line 1157: <BitName>Scale mph Report and Status Report</BitName>
   selection "Coupler Effect"
     JMRI line 984: <ienumChoice choice="Coupler Effect" value="211"/>
      KAM line 1158:
                                 <BitName>Coupler Effect
   selection "Squealing Brakes"
     JMRI line 985: <ienumChoice choice="Squealing Brakes" value="215"/>
      KAM line 1159:
                                 <BitName>Squealing Brakes
   selection "Squealing Brakes + Air Brakes"
      JMRI line 986: <ienumChoice choice="Squealing Brakes + Air Brakes"/>
      KAM line 1160:
                                 <BitName>Squealing Brakes + Air Brakes/BitName>
Variable named: - Neutral Only
                 <ivariable label=" - Neutral Only" CVname="53.7.1" CV="53" PI="7" SI="1"</pre>
 JMRI line 709:
 KAM line 1167:
                          <NAME> - Neutral Only</NAME>
Variable named: Outout 13 - Forward/Reverse Only
JMRI line 1017: <ivariable label="Outout 13 - Forward/Reverse Only" CVname="53.13.0"
CV="53" PI="13" SI="0"
                   <NAME>Outout 13 - Forward/Reverse Only</NAME>
 KAM line 1210:
   selection "Dynamic Brakes"
      JMRI line 1020:
                             <ienumChoice choice="Dynamic Brakes" value="5"/>
      KAM line 1225:
                                 <BitName>Dynamic Brakes
   selection "Long Air Let-off"
     selection "Short Air Let-off"
      JMRI line 1022: <ienumChoice choice="Short Air Let-off"/>
      KAM line 1227:
                                 <BitName>Short Air Let-off</BitName>
   selection "Mute"
     JMRI line 1023: <ienumChoice choice="Mute" value="64"/>
KAM line 1229:
      KAM line 1228:
                                 <BitName>Mute</BitName>
   selection "Doppler Shift"
  JMRI line 1024: <ienumChoice choice="Doppler Shift"/>
KAM line 1229: <BitName>Doppler Shift</BitName>
selection "Headlight"
```

```
JMRI line 1025:
                             <ienumChoice choice="Headlight" value="98"/>
      KAM line 1230:
                                 <BitName>Headlight</BitName>
   selection "Dim Headlight"
     JMRI line 1026:
                             <ienumChoice choice="Dim Headlight"/>
      KAM line 1231:
                                 <BitName>Dim Headlight</BitName>
   selection "Reverse Light"
     JMRI line 1027:
                             <ienumChoice choice="Reverse Light"/>
      KAM line 1232:
                                 <BitName>Reverse Light
   selection "Automatic Cab Lights"
      JMRI line 1028:
                             <ienumChoice choice="Automatic Cab Lights"/>
                                 <BitName>Automatic Cab Lights
      KAM line 1233:
   selection "Directional Mars Light"
      JMRI line 1029: <ienumChoice choice="Directional Mars Light"/>
      KAM line 1234:
                                 <BitName>Directional Mars Light
   selection "Mars Light"
     JMRI line 1029:
                            <ienumChoice choice="Directional Mars Light"/>
      KAM line 1235:
                                 <BitName>Mars Light</BitName>
   selection "Strobe Mars Light"
      JMRI line 1031: <ienumChoice choice="Strobe Mars Light"/>
      KAM line 1236:
                                 <BitName>Strobe Mars Light
   selection "Number Board Lights"
     JMRI line 1032: <ienumChoice choice="Number Board Lights"/>
KAM line 1237: <BitName>Number Board Lights</BitName>
      KAM line 1237:
                                 <BitName>Number Board Lights
   selection "Directional Headlight + Directional Mars Light"
      JMRI line 1033: <ienumChoice choice="Directional Headlight + Directional Mars</pre>
Light" value="107"/>
      KAM line 1238:
                                 <BitName>Directional Headlight + Directional Mars
Light</BitName>
   selection "Directional Headlight + Directional Ditch Lights"
      JMRI line 1034: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 1239:
                                 <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
   selection "Directional Ditch Lights"
      JMRI line 1034:
                       <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
      KAM line 1240:
                                 <BitName>Directional Ditch Lights
   selection "Ditch Lights"
      JMRI line 1034:
                           <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
                                 <BitName>Ditch Lights</BitName>
      KAM line 1241:
   selection "Stobe Ditch Lights"
     JMRI line 1037: <ienumChoice choice="Stobe Ditch Lights"/>
KAM line 1242: <BitName>Stobe Ditch Lights</BitName>
                                 <BitName>Stobe Ditch Lights
   selection "Cruise Control"
     JMRI line 1038:
                             <ienumChoice choice="Cruise Control" value="177"/>
      KAM line 1243:
                                 <BitName>Cruise Control</BitName>
   selection "Scale mph Report and Status Report"
     JMRI line 1039:
                             <ienumChoice choice="Scale mph Report and Status Report"/>
      KAM line 1244:
                                 <BitName>Scale mph Report and Status Report/BitName>
   selection "Coupler Effect"
     JMRI line 1040:
                             <ienumChoice choice="Coupler Effect" value="211"/>
      KAM line 1245:
                                 <BitName>Coupler Effect
   selection "Squealing Brakes"
     JMRI line 1041: <ienumChoice choice="Squealing Brakes" value="215"/>
      KAM line 1246:
                                 <BitName>Squealing Brakes/BitName>
   selection "Squealing Brakes + Air Brakes"
      JMRI line 1042: <ienumChoice choice="Squealing Brakes + Air Brakes"/>
```

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KAM line 1247:
                              <BitName>Squealing Brakes + Air Brakes</BitName>
Variable named: Outout 8 - Forward/Reverse Only
 JMRI line 737: <ivariable label="Outout 8 - Forward/Reverse Only" CVname="53.8.0" CV="53"
PI="8" SI="0"
 KAM line 1254:
                       <NAME>Outout 8 - Forward/Reverse Only</NAME>
  selection "Dynamic Brakes"
     JMRI line 740: <ienumChoice choice="Dynamic Brakes" value="5"/>
      KAM line 1269:
                              <BitName>Dynamic Brakes
  selection "Long Air Let-off"
     JMRI line 741: <ienumChoice choice="Long Air Let-off" value="9"/>
      KAM line 1270:
                              <BitName>Long Air Let-off</BitName>
  selection "Short Air Let-off"
                    <ienumChoice choice="Short Air Let-off"/>
     JMRI line 742:
      KAM line 1271:
                              <BitName>Short Air Let-off</BitName>
  selection "Mute"
                  JMRI line 743:
                              <BitName>Mute</BitName>
      KAM line 1272:
  selection "Doppler Shift"
  JMRI line 744: <ienumChoice choice="Doppler Shift"/>
  selection "Dim Headlight"
     JMRI line 746: <ienumChoice choice="Dim Headlight"/>
      KAM line 1275:
                              <BitName>Dim Headlight</BitName>
  selection "Reverse Light"
     JMRI line 747: <ienumChoice choice="Reverse Light"/>
      KAM line 1276:
                              <BitName>Reverse Light
  selection "Automatic Cab Lights"
     JMRI line 748: <ienumChoice choice="Automatic Cab Lights"/>
                              <BitName>Automatic Cab Lights
      KAM line 1277:
  selection "Directional Mars Light"
     JMRI line 749: <ienumChoice choice="Directional Mars Light"/>
  selection "Strobe Mars Light"
     JMRI line 751: <ienumChoice choice="Strobe Mars Light"/>
KAM line 1280: <BitName>Strobe Mars Light</BitName>
      KAM line 1280:
                              <BitName>Strobe Mars Light
  selection "Number Board Lights"
     JMRI line 752:
                         <ienumChoice choice="Number Board Lights"/>
      KAM line 1281:
                              <BitName>Number Board Lights
  selection "Directional Headlight + Directional Mars Light"
     JMRI line 753: <ienumChoice choice="Directional Headlight + Directional Mars
Light" value="107"/>
      KAM line 1282:
                              <BitName>Directional Headlight + Directional Mars
Light</BitName>
  selection "Directional Headlight + Directional Ditch Lights"
     JMRI line 754: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 1283:
                              <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
  selection "Directional Ditch Lights"
     JMRI line 754: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
```

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KAM line 1284:
                                <BitName>Directional Ditch Lights
   selection "Ditch Lights"
     JMRI line 754: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 1285:
                                <BitName>Ditch Lights</BitName>
   selection "Stobe Ditch Lights"
     KAM line 1286:
                                <BitName>Stobe Ditch Lights
   selection "Cruise Control"
     JMRI line 758: <ienumChoice choice="Cruise Control" value="177"/>
                                <BitName>Cruise Control</BitName>
      KAM line 1287:
   selection "Scale mph Report and Status Report"
     JMRI line 759: <ienumChoice choice="Scale mph Report and Status Report"/>
      KAM line 1288:
                                <BitName>Scale mph Report and Status Report/BitName>
   selection "Coupler Effect"
     JMRI line 760: <ienumChoice choice="Coupler Effect" value="211"/>
      KAM line 1289:
                                <BitName>Coupler Effect
   selection "Squealing Brakes"
     JMRI line 761: <ienumChoice choice="Squealing Brakes" value="215"/>
      KAM line 1290:
                                <BitName>Squealing Brakes
   selection "Squealing Brakes + Air Brakes"
     JMRI line 762: <ienumChoice choice="Squealing Brakes + Air Brakes"/>
KAM line 1291: <BitName>Squealing Brakes + Air Brakes</BitName>
Variable named: - Neutral Only
 JMRI line 765: <ivariable label=" - Neutral Only" CVname="53.8.1" CV="53" PI="8" SI="1"
 KAM line 1298:
                         <NAME> - Neutral Only</NAME>
Variable named: Output 3 - Forward/Reverse Only
 JMRI line 542: <ivariable label="Output 3 - Forward/Reverse Only" CVname="53.3.0" CV="53"
PI="3" SI="0"
 KAM line 1320:
                         <NAME>Output 3 - Forward/Reverse Only</NAME>
   selection "Bell"
     JMRI line 545:
KAM line 1335:
                         <ienumChoice choice="Bell" value="3"/>
                                <BitName>Bell</BitName>
Variable named: - Neutral Only
 JMRI line 821: <ivariable label=" - Neutral Only" CVname="53.9.1" CV="53" PI="9" SI="1"
 KAM line 1342:
                         <NAME> - Neutral Only</NAME>
Variable named: Output 1 - Forward/Reverse Only
JMRI line 516: <ivariable label="Output 1 - Forward/Reverse Only" CVname="53.1.0" CV="53"
PI="1" SI="0"
 KAM line 1364:
                         <NAME>Output 1 - Forward/Reverse Only</NAME>
   selection "Directional Headlight"
     JMRI line 519: <ienumChoice choice="Directional Headlight" value="96"/>
      KAM line 1379:
                               <BitName>Directional Headlight</BitName>
Variable named: - Neutral Only
JMRI line 877: <ivariable label=" - Neutral Only" CVname="53.10.1" CV="53" PI="10" SI="1"
 KAM line 1386:
                         <NAME> - Neutral Only</NAME>
Variable named: Output 2 - Forward/Reverse Only
JMRI line 529: <ivariable label="Output 2 - Forward/Reverse Only" CVname="53.2.0" CV="53"
PI="2" SI="0"
 KAM line 1408:
                         <NAME>Output 2 - Forward/Reverse Only</NAME>
  selection "Directional Reverse Light"
     JMRI line 532: <ienumChoice choice="Directional Reverse Light" value="97"/>
```

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KAM line 1423:
                                      <BitName>Directional Reverse Light
Variable named: - Neutral Only
 JMRI line 933: <ivariable label=" - Neutral Only" CVname="53.11.1" CV="53" PI="11" SI="1"
  KAM line 1430:
                              <NAME> - Neutral Only</NAME>
Variable named: - Neutral Only
 JMRI line 989: <ivariable label=" - Neutral Only" CVname="53.12.1" CV="53" PI="12" SI="1"
  KAM line 1452:
                              <NAME> - Neutral Only</NAME>
Variable named: Outout 7 - Forward/Reverse Only
 JMRI line 681: <ivariable label="Outout 7 - Forward/Reverse Only" CVname="53.7.0" CV="53"
PI="7" SI="0"
  KAM line 1495:
                              <NAME>Outout 7 - Forward/Reverse Only</NAME>
   selection "Dynamic Brakes"
       JMRI line 684: <ienumChoice choice="Dynamic Brakes" value="5"/>
       KAM line 1510:
                                      <BitName>Dynamic Brakes
   selection "Long Air Let-off"
       JMRI line 685: <ienumChoice choice="Long Air Let-off" value="9"/>
       KAM line 1511:
                                      <BitName>Long Air Let-off</BitName>
   selection "Short Air Let-off"
      JMRI line 686: <ienumChoice choice="Short Air Let-off"/>
KAM line 1512: <BitName>Short Air Let-off</BitName>
   selection "Mute"
      JMRI line 687: <ienumChoice choice="Mute" value="64"/>
        KAM line 1513:
                                      <BitName>Mute</BitName>
   selection "Doppler Shift"
      JMRI line 688: <ienumChoice choice="Doppler Shift"/>
KAM line 1514: <BitName>Doppler Shift</BitName>
   selection "Headlight"

JMRI line 689: <ienumChoice choice="Headlight" value="98"/>

KAM line 1515: <BitName>Headlight</BitName>
   selection "Dim Headlight"
      JMRI line 690: <ienumChoice choice="Dim Headlight"/>
KAM line 1516: <BitName>Dim Headlight</BitName>
   selection "Reverse Light"
      JMRI line 691: <ienumChoice choice="Reverse Light"/>
KAM line 1517: <BitName>Reverse Light</BitName>
        KAM line 1517:
                                      <BitName>Reverse Light
   selection "Automatic Cab Lights"
       JMRI line 692: <ienumChoice choice="Automatic Cab Lights"/>
       KAM line 1518:
                                      <BitName>Automatic Cab Lights
   selection "Directional Mars Light"
   JMRI line 693: <ienumChoice choice="Directional Mars Light"/>
KAM line 1519: <BitName>Directional Mars Light<br/>
selection "Mars Light"

JMRI line 693: <ienumChoice choice="Directional Mars Light"/>
KAM line 1520: <BitName>Mars Light</BitName>
   selection "Strobe Mars Light"
      JMRI line 695: <ienumChoice choice="Strobe Mars Light"/>
KAM line 1521: <BitName>Strobe Mars Light</BitName>
        KAM line 1521:
                                      <BitName>Strobe Mars Light
   selection "Number Board Lights"
                         <ienumChoice choice="Number Board Lights"/>
       JMRI line 696:
       KAM line 1522:
                                      <BitName>Number Board Lights
   selection "Directional Headlight + Directional Mars Light"
      JMRI line 697: <ienumChoice choice="Directional Headlight + Directional Mars
Light" value="107"/>
       KAM line 1523:
                                      <BitName>Directional Headlight + Directional Mars
Light</BitName>
```

```
selection "Directional Headlight + Directional Ditch Lights"
     JMRI line 698: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 1524:
                              <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
  selection "Directional Ditch Lights"
     JMRI line 698: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 1525:
                              <BitName>Directional Ditch Lights
  selection "Ditch Lights"
     JMRI line 698: <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
      KAM line 1526:
                              <BitName>Ditch Lights
  selection "Stobe Ditch Lights"
     JMRI line 701: <ienumChoice choice="Stobe Ditch Lights"/>
      KAM line 1527:
                              <BitName>Stobe Ditch Lights</BitName>
  selection "Cruise Control"
     JMRI line 702: <ienumChoice choice="Cruise Control" value="177"/>
      KAM line 1528:
                              <BitName>Cruise Control</BitName>
  selection "Scale mph Report and Status Report"
     JMRI line 703: <ienumChoice choice="Scale mph Report and Status Report"/>
                              <BitName>Scale mph Report and Status Report/BitName>
      KAM line 1529:
  selection "Coupler Effect"
     JMRI line 704: <ienumChoice choice="Coupler Effect" value="211"/>
KAM line 1530: <BitName>Coupler Effect</BitName>
  selection "Squealing Brakes"
     JMRI line 705: <ienumChoice choice="Squealing Brakes" value="215"/>
      KAM line 1531:
                              <BitName>Squealing Brakes
  selection "Squealing Brakes + Air Brakes"
     KAM line 1532:
                              <BitName>Squealing Brakes + Air Brakes/BitName>
Variable named: - Neutral Only
 JMRI line 1045: <ivariable label=" - Neutral Only" CVname="53.13.1" CV="53" PI="13" SI="1"
 KAM line 1539:
                        <NAME> - Neutral Only</NAME>
Variable named: Outout 5 - Forward/Reverse Only
 JMRI line 569: <ivariable label="Outout 5 - Forward/Reverse Only" CVname="53.5.0" CV="53"
PI="5" SI="0"
 KAM line 1582:
                        <NAME>Outout 5 - Forward/Reverse Only</NAME>
  selection "Dynamic Brakes"
     JMRI line 572: <ienumChoice choice="Dynamic Brakes" value="5"/>
      KAM line 1597:
                              <BitName>Dynamic Brakes
  selection "Long Air Let-off"
     selection "Short Air Let-off"
                    <ienumChoice choice="Short Air Let-off"/>
<Ri+Namo>Short Air Tol - CCC/2::--
     JMRI line 574:
      KAM line 1599:
                              <BitName>Short Air Let-off</BitName>
     JMRI line 575: <ienumChoice choice="Mute" value="64"/>
KAM line 1600: <BitName>Muto</br>
  selection "Mute"
  selection "Doppler Shift"
                    <ienumChoice choice="Doppler Shift"/>
     JMRI line 576:
      KAM line 1601:
                              <BitName>Doppler Shift
  KAM line 1602:
                              <BitName>Headlight</BitName>
```

```
selection "Dim Headlight"
     JMRI line 578:
                           <ienumChoice choice="Dim Headlight"/>
      KAM line 1603:
                               <BitName>Dim Headlight
  selection "Reverse Light"
     JMRI line 579: <ienumChoice choice="Reverse Light"/>
      KAM line 1604:
                                <BitName>Reverse Light
  selection "Automatic Cab Lights"
     JMRI line 580:
                      <ienumChoice choice="Automatic Cab Lights"/>
      KAM line 1605:
                                <BitName>Automatic Cab Lights
  selection "Directional Mars Light"
                     <ienumChoice choice="Directional Mars Light"/>
     JMRI line 581:
      KAM line 1606:
                                <BitName>Directional Mars Light
  selection "Mars Light"
                       <ienumChoice choice="Directional Mars Light"/>
     JMRI line 581:
      KAM line 1607:
                                <BitName>Mars Light
  selection "Strobe Mars Light"
     JMRI line 583: <ienumChoice choice="Strobe Mars Light"/>
      KAM line 1608:
                                <BitName>Strobe Mars Light
  selection "Number Board Lights"
     JMRI line 584: <ienumChoice choice="Number Board Lights"/>
      KAM line 1609:
                                <BitName>Number Board Lights</BitName>
  selection "Directional Headlight + Directional Mars Light"
                     <ienumChoice choice="Directional Headlight + Directional Mars</pre>
     JMRI line 585:
Light" value="107"/>
      KAM line 1610:
                                <BitName>Directional Headlight + Directional Mars
Light</BitName>
  selection "Directional Headlight + Directional Ditch Lights"
     JMRI line 586: <ienumChoice choice="Directional Headlight + Directional Ditch
Lights"/>
      KAM line 1611:
                                <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
  selection "Directional Ditch Lights"
     JMRI line 586:
                           <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
      KAM line 1612:
                                <BitName>Directional Ditch Lights
  selection "Ditch Lights"
     JMRI line 586:
                           <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
      KAM line 1613:
                                <BitName>Ditch Lights</BitName>
  selection "Stobe Ditch Lights"
     JMRI line 589: <ienumChoice choice="Stobe Ditch Lights"/>
      KAM line 1614:
                                <BitName>Stobe Ditch Lights
  selection "Cruise Control"
                           <ienumChoice choice="Cruise Control" value="177"/>
     JMRI line 590:
      KAM line 1615:
                                <BitName>Cruise Control</BitName>
  selection "Scale mph Report and Status Report"
     JMRI line 591: <ienumChoice choice="Scale mph Report and Status Report"/>
      KAM line 1616:
                                <BitName>Scale mph Report and Status Report/BitName>
  selection "Coupler Effect"
     JMRI line 592:
                          <ienumChoice choice="Coupler Effect" value="211"/>
      KAM line 1617:
                                <BitName>Coupler Effect
  selection "Squealing Brakes"
     JMRI line 593:
                           <ienumChoice choice="Squealing Brakes" value="215"/>
      KAM line 1618:
                                <BitName>Squealing Brakes
  selection "Squealing Brakes + Air Brakes"
     JMRI line 594: <ienumChoice choice="Squealing Brakes + Air Brakes"/>
      KAM line 1619:
                                <BitName>Squealing Brakes + Air Brakes/BitName>
```

```
Variable named: - Neutral Only
JMRI line 1101: <ivariable label=" - Neutral Only" CVname="53.14.1" CV="53" PI="14" SI="1"
 KAM line 1626:
                      <NAME> - Neutral Only</NAME>
Variable named: Outout 6 - Forward/Reverse Only
 JMRI line 625: <ivariable label="Outout 6 - Forward/Reverse Only" CVname="53.6.0" CV="53"
PI="6" SI="0"
 KAM line 1669:
                      <NAME>Outout 6 - Forward/Reverse Only</NAME>
  selection "Dynamic Brakes"
     JMRI line 628:
                        <ienumChoice choice="Dynamic Brakes" value="5"/>
     KAM line 1684:
                            <BitName>Dynamic Brakes
  selection "Long Air Let-off"
     KAM line 1685:
                            <BitName>Long Air Let-off</BitName>
  selection "Short Air Let-off"
     JMRI line 630: <ienumChoice choice="Short Air Let-off"/>
     KAM line 1686:
                            <BitName>Short Air Let-off</BitName>
  selection "Mute"
     selection "Doppler Shift"
     JMRI line 632: <ienumChoice choice="Doppler Shift"/>
  KAM line 1688: <BitName>Doppler Shift</BitName>
selection "Headlight"

JMRI line 633: <ienumChoice choice="Headlight" value="98"/>
      KAM line 1689:
                            <BitName>Headlight</BitName>
  selection "Dim Headlight"
     JMRI line 634: <ienumChoice choice="Dim Headlight"/>
     KAM line 1690:
                            <BitName>Dim Headlight</BitName>
  selection "Reverse Light"
     JMRI line 635: <ienumChoice choice="Reverse Light"/>
     KAM line 1691:
                            <BitName>Reverse Light
  selection "Automatic Cab Lights"
     KAM line 1692:
                            <BitName>Automatic Cab Lights
  selection "Directional Mars Light"
                   <ienumChoice choice="Directional Mars Light"/>
     JMRI line 637:
  selection "Strobe Mars Light"
     KAM line 1695:
                            <BitName>Strobe Mars Light
  selection "Number Board Lights"
     JMRI line 640: <ienumChoice choice="Number Board Lights"/>
      KAM line 1696:
                            <BitName>Number Board Lights
  selection "Directional Headlight + Directional Mars Light"
                  <ienumChoice choice="Directional Headlight + Directional Mars</pre>
     JMRI line 641:
Light" value="107"/>
      KAM line 1697:
                            <BitName>Directional Headlight + Directional Mars
Light</BitName>
  selection "Directional Headlight + Directional Ditch Lights"
     JMRI line 642:
                   <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
     KAM line 1698:
                            <BitName>Directional Headlight + Directional Ditch
Lights</BitName>
  selection "Directional Ditch Lights"
```

```
JMRI line 642:
                                               <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
Lights"/>
            KAM line 1699:
                                                         <BitName>Directional Ditch Lights
     selection "Ditch Lights"
                                   <ienumChoice choice="Directional Headlight + Directional Ditch</pre>
          JMRI line 642:
Lights"/>
           KAM line 1700:
                                                        <BitName>Ditch Lights
     selection "Stobe Ditch Lights"
          JMRI line 645: <ienumChoice choice="Stobe Ditch Lights"/>
           KAM line 1701:
                                                         <BitName>Stobe Ditch Lights
     selection "Cruise Control"
                                     <ienumChoice choice="Cruise Control" value="177"/>
          JMRI line 646:
           KAM line 1702:
                                                        <BitName>Cruise Control</BitName>
     selection "Scale mph Report and Status Report"
          JMRI line 647: <ienumChoice choice="Scale mph Report and Status Report"/>
           KAM line 1703:
                                                        <BitName>Scale mph Report and Status Report/BitName>
     selection "Coupler Effect"
          JMRI line 648: <ienumChoice choice="Coupler Effect" value="211"/>
           KAM line 1704:
                                                        <BitName>Coupler Effect
     selection "Squealing Brakes"
          JMRI line 649: <ienumChoice choice="Squealing Brakes" value="215"/>
           KAM line 1705:
                                                        <BitName>Squealing Brakes</BitName>
     selection "Squealing Brakes + Air Brakes"
          JMRI line 650: <ienumChoice choice="Squealing Brakes + Air Brakes"/>
KAM line 1706: <PitNamo>Squealing Brakes + Air Brakes (PitNamo>Squealing Brakes + Air Brakes (PitNamo) (PitNamo
           KAM line 1706:
                                                        <BitName>Squealing Brakes + Air Brakes/BitName>
Variable named: Ditch Light Hold Time (seconds)
 JMRI line 1129: <ivariable label="Ditch Light Hold Time (seconds)" CVname="55.110.5"
CV="55" PI="110" SI="5" default="5"
   KAM line 1713:
                                             <NAME>Ditch Light Hold Time (seconds)</NAME>
Variable named: Throttle Mode
 JMRI line 1133: <ivariable label="Throttle Mode" CVname="56.4" CV="56" PI="4" default="1"
   KAM line 1733:
                                            <NAME>Throttle Mode</NAME>
     selection "Standard Throttle Control"
          JMRI line 1136: <ienumChoice choice="Standard Throttle Control"/>
                                                        <BitName>Standard Throttle Control</BitName>
           KAM line 1748:
     selection "Speed Control"
          JMRI line 1137: <ienumChoice choice="Speed Control"/>
           KAM line 1749:
                                                        <BitName>Speed Control</BitName>
     selection "Regulated Throttle Control"
          JMRI line 1138: <ienumChoice choice="Regulated Throttle Control"/>
           KAM line 1750:
                                                        <BitName>Regulated Throttle Control</BitName>
Variable named: Programming Verbal Acknowledgement
 JMRI line 450: <variable label="Programming Verbal Acknowledgement" CV="62"</pre>
   KAM line 1757:
                                             <NAME>Programming Verbal Acknowledgement</NAME>
Variable named: Verbal CV Inquiry
 JMRI line 459: <variable label="Verbal CV Inquiry" CV="64" opsOnly="yes" writeOnly="yes"</pre>
   KAM line 1777:
                                             <NAME>Verbal CV Inquiry</NAME>
Variable named: Forward Trim
 JMRI line 464:  <variable label="Forward Trim" CV="66" default="128">
   KAM line 1797:
                                             <NAME>Forward Trim</NAME>
Variable named: Speed Table
 JMRI line 468:  <variable label="Speed Table" CV="67">
```

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KAM line 1817: <NAME>Speed Table</NAME>

Variable named: Reverse Trim