

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE locomotive-config SYSTEM "/xml/DTD/locomotive-config.dtd">

<locomotive-config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://jmri.org/xml/schema/locomotive-config.xsd">
  <!--Written by JMRI version 2.14-r19563 on Thu Jan 05 20:03:28 GMT 2012 $Id:
XmlFile.java 18985 2011-10-31 05:24:36Z rhwood $-->
  <locomotive id="ATSF #1528 ALCo S4 Original"
fileName="ATSF__1528_ALCo_S4_Original.xml" roadNumber="1528"
roadName="Santa Fe" mfg="Bachmann" owner="SAMPLE" model=""
dccAddress="1528" comment="" maxSpeed="100" imageFilePath="" iconFilePath=""
URL="" IsShuntingOn="">
  <dateUpdated>Jan 5, 2012 8:03:28 PM</dateUpdated>
  <decoder model="TSU-AT1000 Alco 539 (Turbo)" family="Tsunami Diesel"
comment="" />
  <locoaddress>
    <dcclocoaddress number="1528" longaddress="yes" />
  </locoaddress>
  <values>
    <decoderDef>
      <varValue item="Primary Address (1-127)" value="3" />
      <varValue item="Start Voltage (0-255)" value="0" />
      <varValue item="Acceleration Rate (0-255)" value="6" />
      <varValue item="Braking Rate (0-255)" value="5" />
      <varValue item="Manufacturer Version ID" value="82" />
      <varValue item="Manufacturer ID" value="141" />
      <varValue item="BEMF Cutout (0-127 or 128-255)" value="0" />
      <varValue item="Packet Time Out Value (0-255)" value="0" />
      <varValue item="Power Source Conversion Type" value="1" />
      <varValue item="Analog Mode Function Status - F1" value="0" />
      <varValue item="Analog Mode Function Status - F2" value="0" />
      <varValue item="Analog Mode Function Status - F3" value="0" />
      <varValue item="Analog Mode Function Status - F4" value="0" />
      <varValue item="Analog Mode Function Status - F5" value="0" />
      <varValue item="Analog Mode Function Status - F6" value="0" />
      <varValue item="Analog Mode Function Status - F7" value="0" />
      <varValue item="Analog Mode Function Status - F8" value="0" />
      <varValue item="Analog Mode Function Status - F0(f)" value="1" />
      <varValue item="Analog Mode Function Status - F0(r)" value="1" />
      <varValue item="Analog Mode Function Status - F9" value="0" />
      <varValue item="Analog Mode Function Status - F10" value="0" />
      <varValue item="Analog Mode Function Status - F11" value="0" />
      <varValue item="Analog Mode Function Status - F12" value="0" />
      <varValue item="CV Unlock Register (0-7)" value="0" />
      <varValue item="CV Lock ID Code (0-7)" value="0" />
      <varValue item="Extended Address (0001-9999)" value="1528" />
    </decoderDef>
  </values>
</locomotive-config>
```

<varValue item="Consist Address (0-127)" value="0" />
<varValue item="Loco Direction In Consist" value="0" />
<varValue item="Consist Address Activation for F1" value="0" />
<varValue item="Consist Address Activation for F2" value="0" />
<varValue item="Consist Address Activation for F3" value="0" />
<varValue item="Consist Address Activation for F4" value="0" />
<varValue item="Consist Address Activation for F5" value="0" />
<varValue item="Consist Address Activation for F6" value="0" />
<varValue item="Consist Address Activation for F7" value="0" />
<varValue item="Consist Address Activation for F8" value="0" />
<varValue item="Consist Address Activation for F0(f) in Forward" value="0" />
<varValue item="Consist Address Activation for F0(r) in Reverse" value="0" />
<varValue item="Consist Address Activation for F9" value="0" />
<varValue item="Consist Address Activation for F10" value="0" />
<varValue item="Consist Address Activation for F11" value="0" />
<varValue item="Consist Address Activation for F12" value="0" />
<varValue item="Consist Acceleration Rate (0-127)" value="0" />
<varValue item="Consist Acceleration Sign" value="0" />
<varValue item="Consist Braking Rate (0-127)" value="0" />
<varValue item="Consist Braking Sign" value="0" />
<varValue item="Speed Table Selection" value="0" />
<varValue item="Locomotive's Normal Direction of Motion" value="0" />
<varValue item="Speed Steps" value="1" />
<varValue item="Alternate Power Source Enable" value="1" />
<varValue item="Use Speed Table" value="0" />
<varValue item="Extended Address Mode" value="1" />
<varValue item="CV Lock Enable" value="0" />
<varValue item="CV Clear (CVCLR)" value="0" />
<varValue item="Function Group 2 and 3 Exchange" value="0" />
<varValue item="FL(f) controls Headlight" value="1" />
<varValue item="FL(f) controls Backup Light" value="0" />
<varValue item="FL(f) controls output Air Horn" value="0" />
<varValue item="FL(f) controls output Bell" value="0" />
<varValue item="FL(f) controls output FX5" value="0" />
<varValue item="FL(f) controls output FX6" value="0" />
<varValue item="FL(f) controls output Dynamics" value="0" />
<varValue item="FL(f) controls output Short Horn" value="0" />
<varValue item="FL(r) controls Headlight" value="1" />
<varValue item="FL(r) controls Backup Light" value="1" />
<varValue item="FL(r) controls output Air Horn" value="0" />
<varValue item="FL(r) controls output Bell" value="0" />
<varValue item="FL(r) controls output FX5" value="0" />
<varValue item="FL(r) controls output FX6" value="0" />
<varValue item="FL(r) controls output Dynamics" value="0" />
<varValue item="FL(r) controls output Short Horn" value="0" />
<varValue item="F1 controls Headlight" value="0" />

```
<varValue item="F1 controls Backup Light" value="0" />
<varValue item="F1 controls output Air Horn" value="0" />
<varValue item="F1 controls output Bell" value="1" />
<varValue item="F1 controls output FX5" value="0" />
<varValue item="F1 controls output FX6" value="0" />
<varValue item="F1 controls output Dynamics" value="0" />
<varValue item="F1 controls output Short Horn" value="0" />
<varValue item="F2 controls Headlight" value="0" />
<varValue item="F2 controls Backup Light" value="0" />
<varValue item="F2 controls output Air Horn" value="1" />
<varValue item="F2 controls output Bell" value="0" />
<varValue item="F2 controls output FX5" value="0" />
<varValue item="F2 controls output FX6" value="0" />
<varValue item="F2 controls output Dynamics" value="0" />
<varValue item="F2 controls output Short Horn" value="0" />
<varValue item="F3 controls output Bell" value="0" />
<varValue item="F3 controls output FX5" value="0" />
<varValue item="F3 controls output FX6" value="0" />
<varValue item="F3 controls output Dynamics" value="0" />
<varValue item="F3 controls output Short Horn" value="1" />
<varValue item="F3 controls output Fans(+)" value="0" />
<varValue item="F3 controls output Dimming" value="0" />
<varValue item="F4 controls output Bell" value="0" />
<varValue item="F4 controls output FX5" value="0" />
<varValue item="F4 controls output FX6" value="0" />
<varValue item="F4 controls output Dynamics" value="0" />
<varValue item="F4 controls output Short Horn" value="0" />
<varValue item="F4 controls output Fans(+)" value="0" />
<varValue item="F4 controls output Dimming" value="0" />
<varValue item="F5 controls output Bell" value="0" />
<varValue item="F5 controls output FX5" value="0" />
<varValue item="F5 controls output FX6" value="0" />
<varValue item="F5 controls output Dynamics" value="0" />
<varValue item="F5 controls output Short Horn" value="0" />
<varValue item="F5 controls output Fans(+)" value="0" />
<varValue item="F5 controls output Dimming" value="0" />
<varValue item="F6 controls output Bell" value="0" />
<varValue item="F6 controls output FX5" value="0" />
<varValue item="F6 controls output FX6" value="0" />
<varValue item="F6 controls output Dynamics" value="0" />
<varValue item="F6 controls output Short Horn" value="0" />
<varValue item="F6 controls output Fans(+)" value="0" />
<varValue item="F6 controls output Dimming" value="0" />
<varValue item="F7 controls output Dynamics" value="0" />
<varValue item="F7 controls output Short Horn" value="0" />
<varValue item="F7 controls output Fans(+)" value="0" />
```

```
<varValue item="F7 controls output Dimming" value="1" />
<varValue item="F7 controls output Mute" value="0" />
<varValue item="F7 controls output Comp(-)" value="0" />
<varValue item="F7 controls output Brakes" value="0" />
<varValue item="F8 controls output Dynamics" value="0" />
<varValue item="F8 controls output Short Horn" value="0" />
<varValue item="F8 controls output Fans(+)" value="0" />
<varValue item="F8 controls output Dimming" value="0" />
<varValue item="F8 controls output Mute" value="1" />
<varValue item="F8 controls output Comp(-)" value="0" />
<varValue item="F8 controls output Brakes" value="0" />
<varValue item="F9 controls output Dynamics" value="0" />
<varValue item="F9 controls output Short Horn" value="0" />
<varValue item="F9 controls output Fans(+)" value="0" />
<varValue item="F9 controls output Dimming" value="0" />
<varValue item="F9 controls output Mute" value="0" />
<varValue item="F9 controls output Comp(-)" value="0" />
<varValue item="F9 controls output Brakes" value="0" />
<varValue item="F10 controls output Short Horn" value="0" />
<varValue item="F10 controls output Fans(+)" value="0" />
<varValue item="F10 controls output Dimming" value="0" />
<varValue item="F10 controls output Mute" value="0" />
<varValue item="F10 controls output Comp(-)" value="0" />
<varValue item="F10 controls output Brakes" value="0" />
<varValue item="F10 controls output Coupler" value="0" />
<varValue item="F11 controls output Short Horn" value="0" />
<varValue item="F11 controls output Fans(+)" value="0" />
<varValue item="F11 controls output Dimming" value="0" />
<varValue item="F11 controls output Mute" value="0" />
<varValue item="F11 controls output Comp(-)" value="0" />
<varValue item="F11 controls output Brakes" value="0" />
<varValue item="F11 controls output Coupler" value="0" />
<varValue item="F12 controls output Short Horn" value="0" />
<varValue item="F12 controls output Fans(+)" value="0" />
<varValue item="F12 controls output Dimming" value="0" />
<varValue item="F12 controls output Mute" value="0" />
<varValue item="F12 controls output Comp(-)" value="0" />
<varValue item="F12 controls output Brakes" value="0" />
<varValue item="F12 controls output Coupler" value="0" />
<varValue item="Analog Horn Control (0-255)" value="0" />
<varValue item="Headlight F0(f) Effect Selection" value="14" />
<varValue item="Headlight F0(f) Phase Selection" value="0" />
<varValue item="Headlight F0(f) Grade Crossing Logic" value="0" />
<varValue item="Headlight F0(f) Rule 17 Mode" value="0" />
<varValue item="Headlight F0(f) Light Type" value="1" />
<varValue item="Backup Light F0(r) Effect Selection" value="1" />
```

```
<varValue item="Backup Light F0(r) Phase Selection" value="0" />
<varValue item="Backup Light F0(r) Grade Crossing Logic" value="0" />
<varValue item="Backup Light F0(r) Rule 17 Mode" value="0" />
<varValue item="Backup Light F0(r) Light Type" value="1" />
<varValue item="FX5 Effect Selection" value="0" />
<varValue item="FX5 Phase Selection" value="0" />
<varValue item="FX5 Grade Crossing Logic" value="0" />
<varValue item="FX5 Rule 17 Mode" value="0" />
<varValue item="FX5 Light Type" value="0" />
<varValue item="FX6 Effect Selection" value="0" />
<varValue item="FX6 Phase Selection" value="0" />
<varValue item="FX6 Grade Crossing Logic" value="0" />
<varValue item="FX6 Rule 17 Mode" value="0" />
<varValue item="FX6 Light Type" value="0" />
<varValue item="Hyperlight Flash Rate (0-15)" value="4" />
<varValue item="Grade Crossing Hold Time (0-15)" value="4" />
<varValue item="F11 Braking Rate (0-127)" value="0" />
<varValue item="F11 Braking Sign" value="0" />
<varValue item="Transponding Control" value="0" />
<varValue item="Analog Mode Motor Start Voltage (0-255)" value="25" />
<varValue item="Analog Mode Max Motor Voltage (0-255)" value="180" />
<varValue item="Forward Trim (0-255)" value="128" />
<varValue item="Speed Table"
value="9,18,27,36,45,55,64,73,82,91,100,109,118,127,137,146,155,164,173,182,191,200
,209,219,228,237,246,255" />
<varValue item="Reverse Trim (0-255)" value="128" />
<varValue item="User Identifier #1 (0-255)" value="1" />
<varValue item="User Identifier #2 (0-255)" value="3" />
<varValue item="Auto Air Compressor Enable" value="0" />
<varValue item="Auto Radiator Fan Enable" value="0" />
<varValue item="Quiet Mode Timeout Period" value="0" />
<varValue item="Bell Ring Rate" value="4" />
<varValue item="Airhorn Select" value="0" />
<varValue item="Alternate Airhorn Select" value="0" />
<varValue item="Engine Notch Rate" value="7" />
<varValue item="Engine RPM Interlock" value="0" />
<varValue item="Engine Auto Start Enable" value="1" />
<varValue item="Dynamic Brake Override" value="0" />
<varValue item="Motor Recovery Speed (0-255)" value="204" />
<varValue item="Master Volume Control" value="192" />
<varValue item="Airhorn Volume" value="225" />
<varValue item="Bell Volume" value="60" />
<varValue item="Engine Exhaust Volume" value="120" />
<varValue item="Air Compressor Volume" value="0" />
<varValue item="Dynamic Brake Volume" value="0" />
<varValue item="Radiator Fans Volume" value="0" />
```

```
<varValue item="Coupler Volume" value="0" />
<varValue item="Brake Squeal Volume" value="0" />
<varValue item="Brake Release Volume" value="0" />
<varValue item="Air Tank Poppet Valve Volume" value="0" />
<varValue item="Equalizer Control" value="0" />
<varValue item="62 Hz Cut/Boost" value="128" />
<varValue item="125 Hz Cut/Boost" value="128" />
<varValue item="250 Hz Cut/Boost" value="128" />
<varValue item="500 Hz Cut/Boost" value="128" />
<varValue item="1K Hz Cut/Boost" value="128" />
<varValue item="2K Hz Cut/Boost" value="128" />
<varValue item="4K Hz Cut/Boost" value="128" />
<varValue item="Reverb Control" value="0" />
<varValue item="Reverb Output Level" value="0" />
<varValue item="Reverb Delay" value="0" />
<varValue item="Reverb Gain" value="0" />
<varValue item="Horn Reverb Level" value="0" />
<varValue item="Bell Reverb Level" value="0" />
<varValue item="Engine Exhaust Reverb Level" value="0" />
<varValue item="Air Compressor Reverb Level" value="0" />
<varValue item="Bell-On Set Point" value="5" />
<varValue item="Bell-Off Set Point" value="10" />
<varValue item="Grade Crossing Airhorn Sensitivity" value="4" />
<varValue item="Brake Squeal Sensitivity" value="3" />
<varValue item="Automatic Grade Crossing Horn Enable (Analog Mode)"
value="0" />
<varValue item="Automatic Horn Signal Enable (Analog Mode)" value="1" />
<varValue item="Automatic Bell Enable (Analog Mode)" value="1" />
<varValue item="Automatic Brake Squeal Enable (Analog Mode)" value="0" />
<varValue item="Automatic Grade Crossing Horn Enable" value="0" />
<varValue item="Automatic Horn Signal Enable" value="0" />
<varValue item="Automatic Bell Enable" value="0" />
<varValue item="Automatic Brake Squeal Enable" value="0" />
<varValue item="Motor Kp Coefficient (0-255)" value="60" />
<varValue item="Motor Ki Coefficient (0-255)" value="30" />
<varValue item="Motor Control Intensity (0-255)" value="115" />
<varValue item="Motor Control Sample Period (0-31)" value="8" />
<varValue item="Motor Control Sample Aperture Time (0-255)" value="8" />
</decoderDef>
<CVvalue name="1" value="3" />
<CVvalue name="2" value="0" />
<CVvalue name="3" value="6" />
<CVvalue name="4" value="5" />
<CVvalue name="7" value="82" />
<CVvalue name="8" value="141" />
<CVvalue name="10" value="0" />
```

<CVvalue name="11" value="0" />
<CVvalue name="12" value="1" />
<CVvalue name="13" value="0" />
<CVvalue name="14" value="3" />
<CVvalue name="15" value="0" />
<CVvalue name="16" value="0" />
<CVvalue name="17" value="197" />
<CVvalue name="18" value="248" />
<CVvalue name="19" value="0" />
<CVvalue name="21" value="0" />
<CVvalue name="22" value="0" />
<CVvalue name="23" value="0" />
<CVvalue name="24" value="0" />
<CVvalue name="25" value="0" />
<CVvalue name="29" value="38" />
<CVvalue name="30" value="0" />
<CVvalue name="33" value="1" />
<CVvalue name="34" value="3" />
<CVvalue name="35" value="8" />
<CVvalue name="36" value="4" />
<CVvalue name="37" value="16" />
<CVvalue name="38" value="0" />
<CVvalue name="39" value="0" />
<CVvalue name="40" value="0" />
<CVvalue name="41" value="16" />
<CVvalue name="42" value="32" />
<CVvalue name="43" value="0" />
<CVvalue name="44" value="0" />
<CVvalue name="45" value="0" />
<CVvalue name="46" value="0" />
<CVvalue name="47" value="0" />
<CVvalue name="49" value="142" />
<CVvalue name="50" value="129" />
<CVvalue name="51" value="0" />
<CVvalue name="52" value="0" />
<CVvalue name="59" value="4" />
<CVvalue name="60" value="4" />
<CVvalue name="61" value="0" />
<CVvalue name="62" value="0" />
<CVvalue name="63" value="25" />
<CVvalue name="64" value="180" />
<CVvalue name="66" value="128" />
<CVvalue name="67" value="9" />
<CVvalue name="68" value="18" />
<CVvalue name="69" value="27" />
<CVvalue name="70" value="36" />

<CVvalue name="71" value="45" />
<CVvalue name="72" value="55" />
<CVvalue name="73" value="64" />
<CVvalue name="74" value="73" />
<CVvalue name="75" value="82" />
<CVvalue name="76" value="91" />
<CVvalue name="77" value="100" />
<CVvalue name="78" value="109" />
<CVvalue name="79" value="118" />
<CVvalue name="80" value="127" />
<CVvalue name="81" value="137" />
<CVvalue name="82" value="146" />
<CVvalue name="83" value="155" />
<CVvalue name="84" value="164" />
<CVvalue name="85" value="173" />
<CVvalue name="86" value="182" />
<CVvalue name="87" value="191" />
<CVvalue name="88" value="200" />
<CVvalue name="89" value="209" />
<CVvalue name="90" value="219" />
<CVvalue name="91" value="228" />
<CVvalue name="92" value="237" />
<CVvalue name="93" value="246" />
<CVvalue name="94" value="255" />
<CVvalue name="95" value="128" />
<CVvalue name="105" value="1" />
<CVvalue name="106" value="3" />
<CVvalue name="112" value="0" />
<CVvalue name="113" value="0" />
<CVvalue name="114" value="4" />
<CVvalue name="115" value="0" />
<CVvalue name="116" value="39" />
<CVvalue name="118" value="204" />
<CVvalue name="128" value="192" />
<CVvalue name="129" value="225" />
<CVvalue name="130" value="60" />
<CVvalue name="131" value="120" />
<CVvalue name="132" value="0" />
<CVvalue name="133" value="0" />
<CVvalue name="134" value="0" />
<CVvalue name="137" value="0" />
<CVvalue name="139" value="0" />
<CVvalue name="140" value="0" />
<CVvalue name="143" value="0" />
<CVvalue name="153" value="0" />
<CVvalue name="154" value="128" />


```
<CVvalue name="155" value="128" />
<CVvalue name="156" value="128" />
<CVvalue name="157" value="128" />
<CVvalue name="158" value="128" />
<CVvalue name="159" value="128" />
<CVvalue name="160" value="128" />
<CVvalue name="161" value="0" />
<CVvalue name="162" value="0" />
<CVvalue name="163" value="0" />
<CVvalue name="164" value="0" />
<CVvalue name="169" value="0" />
<CVvalue name="170" value="0" />
<CVvalue name="171" value="0" />
<CVvalue name="172" value="0" />
<CVvalue name="193" value="5" />
<CVvalue name="194" value="10" />
<CVvalue name="195" value="4" />
<CVvalue name="196" value="3" />
<CVvalue name="197" value="6" />
<CVvalue name="198" value="0" />
<CVvalue name="209" value="60" />
<CVvalue name="210" value="30" />
<CVvalue name="212" value="115" />
<CVvalue name="213" value="8" />
<CVvalue name="214" value="8" />
</values>
</locomotive>
<!-- Written by JMRI version 2.14-r19563 on Thu Jan 05 20:18:22 GMT 2012 $Id:
XmlFile.java 18985 2011-10-31 05:24:36Z rhwood $-->
</locomotive-config>
```