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BENDIX SYSTEMS DIVISION ANN ARBOR, MICH.  
Functional Test of Active Seismic  
Geophone Amplifier

NO.  
ATM 435

REV.NO.

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This ATM is in response to RFC #7-18 and defines the changes to the Active Seismic Experiment Sensor Simulator in order to provide for a one point functional check of the Active Seismic Experiment Geophone Amplifiers, during subsystem and system tests.

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A one point low amplitude (3 to 5 millivolt) 60 cycle signal will be injected into each geophone amplifier with the geophone connector removed. This will verify amplifier gain and phase shift by manually comparing, on a oscilloscope, the input wave shape and (knowing the input level) with the output of the geophone amplifiers. The output of the geophone amplifier will be accepted by the active seismic sensor simulator and routed to the system test set for accessibility on the test point patch panel.

The analog to digital converter will be checked throughout its 0 to 5 volt DC range as originally planned. After the system tests are completed the geophone connector will be mated and power again applied to the active seismic experiment in order to verify that signals are being received from the geophones. This signal will be a qualitative type of measurement by physically moving the individual geophone.