	J.O. NUMBER: 123896-S-K-00726	INSPECTION REPORT NO.: MG-01
	P.O. NO.: 123896-K726-01	HOURS WORKED: 6
INSPECTION & STATUS REPORT	REQUISITION NO.: 123896-K726	SHOP ORDER NO.: 202543
CLIENT: American Electric Power	SUPPLIER/SUBSUPPLIER: CCI	
PROJECT/LOCATION: John W. Turk Power Plant Unit #1	SUPPLIER/SUBSUPPLIER LOCATION: Rancho Santa Margarita, Ca.	

Purpose:

This inspector traveled to CCI on April 2, 2009 to thoroughly inspect and witness functional testing on one control valve with tag# 1RV-MS1400.

Attendees:

ED Villalva- CCI Project Manager

M. B. Spence – CCI Inspector

Ms. Melanie Gropp – PSC Inspector

Inspection:

On April 2, 2009 this QA Inspector Traveled to CCI in Rancho Santa Margarita, Ca. to witness the functional testing for one Control Valve Tag#: 1RV-MS1400 per Test Procedure: TP-506, Rev. A and found all systems to be working correctly at this time. Test pressure during this test was measured on the following test gauge: Accu-Drive Gauge S/N: CCI-769 reading from 0-200 psi which was last calibrated on Feb. 5, 2009 and will be calibrated next on Aug. 5, 2009.


The Increasing Signal Open test was run first on this valve. The stem is moved in the "Closing" direction until the signal is equal to the high end of the "Low" tolerance band below. The valve is to be open. The signal is decreased to the low value of the tolerance band. The valve is to close at or before reaching the low value. The signal was then increased to the low end of the "high" tolerance band below. This inspector made sure that the valve was not fully opened at this time. The signal was then increased to the top of the tolerance band. The valve should have been fully opened in the allowable time of 20 seconds. The actual opening time was found to be 19.96 seconds which means that this Open Signals were within the acceptable range. This shows that the Increasing Signal Open test was satisfactory.

Next the Increasing Signal Close test was run on this valve. The Close Signal has to be no lower than a reading of 4.0 seconds close time. The stem is moved in the "Closing" direction until the low end of the "high" tolerance band was reached. The valve is to be open. The signal is increased to the high end of the "High" tolerance band. The valve is to close at or before reaching the high end of the band. The signal was then decreased to the high end of the "Low" tolerance band was reached. This inspector made sure that the valve was not fully opened at this time. The signal was then decreased to the low end of the "Low" tolerance band. The valve should have been fully closed in the allowable time of 4-5 seconds. The actual closing time was found to be 4.07 seconds which means that this Close Signals were within the acceptable range. This shows that the Increasing Signal Close test was satisfactory.

Next the valve performed 2 different signal failures. First the unit was checked to see if the valve would shutdown and close if there is an air leak or failure. Air tube was disconnected to simulate and air blockage to the valve. The valve automatically closed when the air was disconnected. This test proved to be satisfactory. Next the valve was checked to see if the unit would fail and close if the power supply was disconnected. This was simulated by turning the power off to the valve. The valve closed during this simulated power failure and this test proved to be satisfactory.

Refer to the attached inspection Attribute list for description of attribute numbers referenced in this report.

Inspector's Name:	Melanie Gropp	Date of Visit:	Apr. 2, 2009
Inspector's Signature:	<i>Melanie Gropp</i>	Date Report Issued:	Apr. 4, 2009
Inspection Coordinator's Signature:		Date of Review:	

 <p>(CONTINUATION)</p>	J.O. NUMBER: 123896-S-K-00726	INSPECTION REPORT NO.: MG-01
	P.O. NO.: 123896-K726-01	HOURS WORKED: 6
INSPECTION & STATUS REPORT	REQUISITION NO.: 123896-K726	SHOP ORDER NO.: 202543

Next test to be witnessed was the valve stroking test. This test shows the time it takes from a signal change to fully open and then fully close the valve. The allowable time for the unit to fully open as well as fully close is not to exceed 10 seconds. The valve was opened and closed 6 times each and these times were averaged out. Average stroke "Open" time was 4.02 seconds which is well below the allowable time of 10 seconds. This Stroke Open test proved to be satisfactory. Average stroke "Close" time was 3.83 seconds which is well below the allowable time of 10 seconds. This Stroke Close test proved to be satisfactory.

The valve was then filled to 100 psi and all welds and joints were checked for leaks. No leaks were found on this valve. The test air tank S/N: 210200 was also checked for leaks after all testing was complete. No leaks were found on the test tank.

All testing during this visit proved to be satisfactory with no failures to mention.

- Performance test report will be attached with this report.

Significant Conditions:

There are no significant conditions to mention at this time, as all functional tests proved to be satisfactory during this visit.

SEE PHOTOS BELOW:



Function test set-up at the CCI shop.



During functional test at the CCI shop.



(CONTINUATION)

J.O. NUMBER:
123896-S-K-00726

INSPECTION REPORT NO.:
MG-01

P.O. NO.:
123896-K726-01

HOURS WORKED:
6

INSPECTION & STATUS REPORT

REQUISITION NO.: 123896-K726

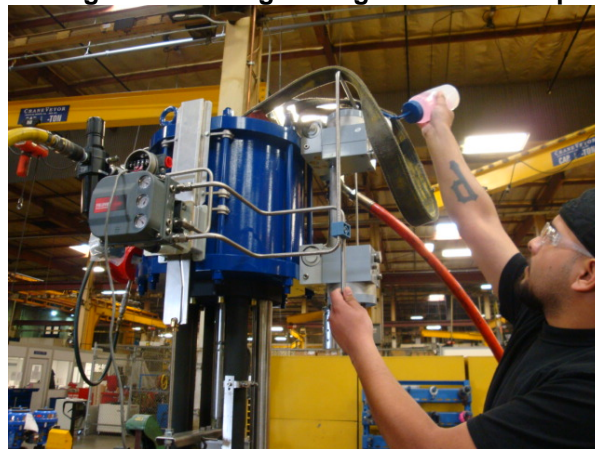
SHOP ORDER NO.:
202543



Plate on the valve at CCI.



Gauge used during testing at the CCI shop.



Checking valve for leaks after testing.

END OF REPORT