UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-4005

December 16, 2005

Paul D. Hinnenkamp
Vice President - Operations
Entergy Operations, Inc.
River Bend Station
5485 US Highway 61N
St. Francisville, Louisiana 70775

SUBJECT: RIVER BEND STATION - NRC RADIATION SAFETY TEAM INSPECTION REPORT 05000458/2005015

Dear Mr. Hinnenkamp:

On November 4, 2005, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your River Bend Station facility. The enclosed report documents the inspection findings, which were discussed at the conclusion of the inspection with Mr. D. Vinci, General Manager, Plant Operations, and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The team reviewed selected procedures and records, observed activities, and interviewed personnel. Specifically, the team evaluated the inspection areas within the radiation protection strategic performance area that are scheduled for review every 2 years. These areas are:

- Radiation monitoring instrumentation
- Radioactive gaseous and liquid effluent treatment and monitoring systems
- Radioactive material processing and transportation
- Radiological environmental monitoring program and radioactive material control program

Based on the results of this inspection no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

Sincerely,

**//RA//**

Michael P. Shannon, Chief
Plant Support Branch
Division of Reactor Safety

Docket: 50-458
License: NPF-47

Enclosure:
NRC Inspection Report 05000458/2005015
w/attachment: Supplemental Information

cc:
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**ROPreports**
RBS Site Secretary **(LGD)**

SISP Review Completed: _Yes____ADAMS: ■ Yes ☐ No Initials: _MPS_____
■ Publicly Available ☐ Non-Publicly Available ☐ Sensitive ■ Non-Sensitive
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**U.S. NUCLEAR REGULATORY COMMISSION**
**REGION IV**

| | |
|---|---|
| Dockets: | 50-458 |
| Licenses: | NPF-47 |
| Report: | 05000458/2005015 |
| Licensee: | Entergy Operations, Inc. |
| Facility: | River Bend Station |
| Location: | 5485 U.S. Highway 61<br>St. Francisville, Louisiana |
| Dates: | November 1 - 4, 2005 |
| Inspectors: | Larry Ricketson, P.E., Senior Health Physicist, Plant Support Branch<br>Louis Carson II, Senior Health Physicist, Plant Support Branch<br>Bernadette Baca, Health Physicist, Plant Support Branch<br>Binesh Tharakan, Health Physicist, Plant Support Branch<br>Adam Nielsen, Health Physicist, Region II |
| Accompanied by: | D. Chris Graves, Nuclear Safety Professional Development Program |
| Approved By: | Michael P. Shannon, Chief<br>Plant Support Branch<br>Division of Reactor Safety |

Enclosure

## SUMMARY OF FINDINGS

IR Number - 05000458/2005015; 11/01/05 - 11/04/05; River Bend Station; Radiation Safety Team

The report covered a 4-day period of inspection on site by a team of five region-based Health Physics Inspectors. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process, Revision 3, dated July 2000.

A. NRC-Identified and Self-Revealing Findings

No findings of significance were identified.

B. Licensee-Identified Violations

None

## REPORT DETAILS

### 2. RADIATION SAFETY
### Cornerstones: Occupational Radiation Safety [OS] and Public Radiation Safety [PS]

2OS3 Radiation Monitoring Instrumentation and Protective Equipment (71121.03)

a. Inspection Scope

This area was inspected to determine the accuracy and operability of radiation monitoring instruments that are used for the protection of occupational workers and the adequacy of the program to provide self-contained breathing apparatus (SCBA) to workers. The team used the requirements in 10 CFR Part 20 and the licensee's procedures required by technical specifications as criteria for determining compliance. The team interviewed licensee personnel and reviewed:

- Calibration of area radiation monitors associated with transient high and very high radiation areas and post-accident monitors used for remote emergency assessment
- Calibration of portable radiation detection instrumentation, electronic alarming dosimetry, and continuous air monitors used for job coverage
- Calibration of whole body counting equipment and radiation detection instruments utilized for personnel and material release from the radiologically controlled area
- Self-assessments, audits, and licensee event reports
- Corrective action program reports since the last inspection
- Licensee action in cases of repetitive deficiencies or significant individual deficiencies
- Calibration expiration and source response check currency on radiation detection instruments staged for use
- The licensee's capability for refilling and transporting SCBA air bottles to and from the control room and operations support center during emergency conditions, status of SCBA staged and ready for use in the plant and associated surveillance records, and personnel qualification and training

- Qualification documentation for onsite personnel designated to perform maintenance on the vendor-designated vital components, and the vital component maintenance records for SCBA units

The inspector completed 9 the required 9 samples.

b. Findings

No findings of significance were identified.

2PS1 Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems (71122.01)

a. Inspection Scope

This area was inspected to ensure that the gaseous and liquid effluent processing systems are maintained so that radiological releases are properly mitigated, monitored, and evaluated with respect to public exposure. The team used the requirements in 10 CFR Part 20, 10 CFR Part 50, Appendices A and I, the Offsite Dose Calculation Manual, and the licensee's procedures required by technical specifications as criteria for determining compliance. The team interviewed licensee personnel and reviewed:

- The most current radiological effluent release reports, changes to radiation monitor setpoint calculation methodology, anomalous sampling results, effluent radiological occurrence performance indicator incidents, self-assessments, audits, and licensee event reports
- Gaseous and liquid release system component configurations
- Routine processing, sample collection, sample analysis, and release of radioactive liquid and gaseous effluent
- Radioactive liquid and gaseous effluent release permits and dose projections to members of the public
- Abnormal releases
- Changes made by the licensee to the offsite dose calculation manual, the liquid or gaseous radioactive waste system design, procedures, or operation since the last inspection
- Monthly, quarterly, and annual dose calculations
- Surveillance test results involving air cleaning systems and stack or vent flow rates
- Instrument calibrations of discharge effluent radiation monitors and flow measurement devices, effluent monitoring system modifications, effluent

radiation monitor alarm setpoint values, and counting room instrumentation calibration and quality control

- Interlaboratory comparison program results

- Licensee event reports, special reports, audits, self-assessments and corrective action reports performed since the last inspection

Either because the conditions did not exist or an event had not occurred, no opportunities were available to review the following items:

- Licensee event reports performed since the last inspection

The inspector completed 10 of the required 10 samples.

b. Findings

No findings of significance were identified.

2PS2 Radioactive Material Processing and Transportation (71122.02)

a. Inspection Scope

This area was inspected to verify that the licensee's radioactive material processing and transportation program complies with the requirements of 10 CFR Parts 20, 61, and 71 and Department of Transportation regulations contained in 49 CFR Parts 171-180. The team interviewed licensee personnel and reviewed:

- The radioactive waste system description, recent radiological effluent release reports, and the scope of the licensee's audit program

- Liquid and solid radioactive waste processing systems configurations, the status and control of any radioactive waste process equipment that is not operational or is abandoned in place, changes made to the radioactive waste processing systems since the last inspection, and current processes for transferring radioactive waste resin and sludge discharges

- Radio-chemical sample analysis results for radioactive waste streams and use of scaling factors and calculations to account for difficult-to-measure radionuclides

- Shipping records for non-excepted package shipments

Either because the conditions did not exist or an event had not occurred, no opportunities were available to review the following items:

- Shipment packaging, surveying, labeling, marking, placarding, vehicle checking, driver instructing, and disposal manifesting

- Licensee event reports, special reports, audits, state agency reports, self-assessments and corrective action reports performed since the last inspection

The inspector completed 6 of the required 6 samples.

b. Findings

No findings of significance were identified.

2PS3 Radiological Environmental Monitoring Program (REMP) and Radioactive Material Control Program (71122.03)

a. Inspection Scope

This area was inspected to ensure that the REMP verifies the impact of radioactive effluent releases to the environment and sufficiently validates the integrity of the radioactive gaseous and liquid effluent release program; and that the licensee's surveys and controls are adequate to prevent the inadvertent release of licensed materials into the public domain. The team used the requirements in 10 CFR Part 20, 10 CFR Part 50, Appendix I, the Offsite Dose Calculation Manual, and the licensee's procedures required by technical specifications as criteria for determining compliance. The team interviewed licensee personnel and reviewed

- Annual environmental monitoring reports
- Air sampling and thermoluminescent dosimeter (TLD) monitoring stations
- Operability, calibration, and maintenance of meteorological instruments
- Each event documented in the Annual Environmental Monitoring Report which involved a missed sample, inoperable sampler, lost TLD, or anomalous measurement
- Calibration and maintenance records for air samplers, composite water samplers, and environmental sample radiation measurement instrumentation, quality control program, interlaboratory comparison program results, and vendor audits
- Locations where the licensee monitors potentially contaminated material leaving the radiological controlled area [or controlled access area] and the methods used for control, survey, and release from these areas
- Type of radiation monitoring instrumentation used to monitor items released, survey and release criteria of potentially contaminated material, radiation detection sensitivities, procedural guidance, and material release records

- Audits, self-assessments, and corrective action reports performed since the last inspection

Either because the conditions did not exist or an event had not occurred, no opportunities were available to review the following items:

- Collection and preparation of environmental samples
- Significant changes made by the licensee to the ODCM as the result of changes to the land use census or sampler station modifications since the last inspection
- Calibration and maintenance records for composite water samplers
- Licensee event reports and special reports performed since the last inspection

The inspector completed 10 of the required 10 samples.

b. Findings

No findings of significance were identified.

## 4. OTHER ACTIVITIES

### 4OA2 Problem Identification and Resolution

a. Inspection Scope

The team evaluated the effectiveness of the licensee's problem identification and resolution process with respect to the following inspection areas:

- Radiation Monitoring Instrumentation (Section 2OS3)
- Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems (Section 2PS1)
- Radioactive Material Processing and Transportation (Section 2PS2)
- Radiological Environmental Monitoring Program and Radioactive Material Control Program (Section 2PS3)

a. Findings

No findings of significance were identified.

4OA6 Management Meetings

Exit Meeting Summary

On November 4, 2005, the team presented the inspection results to Mr. D. Vinci, General Manager, Plant Operations, and other members of the staff who acknowledged the findings. The team confirmed that proprietary information was not provided or examined during the inspection.

## SUPPLEMENTAL INFORMATION

## KEY POINTS OF CONTACT

Licensee

T. Baccus, Senior Health Physicist, Radiation Protection
M. Davis, Acting Superintendent, Radiation Protection
D. Heath, Supervisor, Radwaste/Shipping
R. Heath, Supervisor, Chemistry
K. Huffstatler, Technical Specialist, Licensing
J. Hurley, Supervisor, Radiation Protection
M. Laiche, Senior Health Physicist, Radiation Protection
C. Lewis, Supervisor, Radioactive Waste Operations
B. Michura, Master Nuclear Environmental Technician, Chemistry
R. McDougald, Engineer, Systems Engineering
B. Olinde, Superintendent, Instruments and Calibration
M. Reed, Senior Environmental Specialist, Chemistry
W. Spell, Senior Environmental Specialist, Chemistry

NRC

P. Alter, Senior Resident Inspector
M. Miller, Resident Inspector

## LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

None

Opened and Closed During this Inspection

None

## LIST OF DOCUMENTS REVIEWED

**Section 2OS3: Radiation Monitoring Instrumentation and Protective Equipment**

Audits and Self- Assessments

QA-14-2005-RBS-1, Quality Assurance Audit of Radiation Protection

Procedures

RP-208, Whole Body Counting/In-vitro Bioassay, Revision 0

RP-302, Operation of Radiation Protection Instrumentation, Revision 2

RP-303, Source Checking of Radiation Protection Instrumentation, Revision 8

RP-304, Operation of Counting Equipment, Revision 2

RP-308, Operation and Calibration of the Gamma Scintillation Tool Monitors, Revision 3

RP-502, Inspection and Maintenance of Respiratory Protection Equipment, Revision 3

RP-504, Breathing Air, Revision 2

RHP-0034, Quantitative Respirator Mask Fit Testing Using TSI Portacount Instrumentation, Revision 7

RHP-0106, Calibration of the Canberra Fastscan and Accuscan II Whole Body Counters, Revision 2

RPP-0036, Calibration of DRMS Area Monitors and Determination of Alert and High Alarm Setpoints, Revision 5A

RPP-0074, Refilling SCBA Cylinders, Revision 10

RPP-0118, Calibration and Maintenance of Portable Radiological Air Samplers, Revision 3

Corrective Action Documents (Condition Reports)

| | | |
|---|---|---|
| CR-RBS-2003-03040 | LO-RLO-2003-00166 | CR-RBS-2005-00706 |
| CR-RBS-2003-03284 | CR-RBS-2004-00242 | CR-RBS-2005-00763 |
| CR-RBS-2003-03304 | CR-RBS-2004-00692 | CR-RBS-2005-01186 |
| CR-RBS-2003-03341 | CR-RBS-2004-02292 | CR-RBS-2005-01406 |
| CR-RBS-2003-03341 | CR-RBS-2004-02996 | CR-RBS-2005-02122 |
| CR-RBS-2003-03504 | CR-RBS-2004-03189 | CR-RBS-2005-02731 |
| CR-RBS-2003-03555 | CR-RBS-2005-00539 | CR-RBS-2005-03788 |
| CR-RBS-2003-03627 | CR-RBS-2005-00624 | CR-RBS-2005-03800 |

Calibration Records

Calibration of the Canberra Fastscan Whole Body Counting System at River Bend Station, System #96-9762, March 23, 2005

Calibration of the Canberra Fastscan Whole Body Counting System at River Bend Station, System #96-9762, March 16, 2004

Shielded Tool Monitor Calibration, Serial #89-0560, November 4, 2005

Shielded Tool Monitor Calibration, Serial #89-0527, May 24, 2005

Miscellaneous

Respiratory protection training and qualification records

**Section 2PS1: Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems**

Audits and Self- Assessments

QA-6-2003-RBS-1, Quality Assurance Audit of Effluent and Environmental Protection

Corrective Action Documents (Condition Reports)

CR-RBS-2004-02899
CR-RBS-2005-03801

Procedures

CSP-0005, Chemistry Laboratory Quality Control Program, Revision 7

CSP-0006, Chemistry Surveillance and Scheduling System, Revision 15

CSP-0010, Counting Room Instruments Surveillance, Revision 5A

CSP-0100, Chemistry Required Surveillances and Actions, Revision 21

EN-L1-102, Corrective Action Process, Revision 3

EN-OP-104, Operability Determinations Revision 1

RBNP-050, Waste Minimization Program, Revision 3

MCP-4206, DRMS-Particulate and Gas Monitor Calibration, Revision 3B

STP-511-4514, RMS-Main Plant Exhaust Duct Noble Gas Activity Channel Functional Test RMS-RE125, Revision 7A

STP-511-4580, MS-Liquid Radwaste Effluent Line Radiation Monitor Channel Functional Test RMS-RE107, Revision 7C

RPP-0095, Calibration of the Main Condenser Off-Gas Post-Treatment System Noble Gas Activity Monitors D17-K601A and D17-K601B, Revision 4

Calibration Records

Canberra Gamma Spectrometer and Detectors 1-4: October 2004

Work Orders/air cleaning system surveillance test results

367623, STP-406-3602, Inservice Testing of Div II Fuel Building Ventilation System

368735, STP-257-3601, Inservice Testing of Div I Standby Gas Treatment Filtration System

50373518, STP-406-8603, Div II Fuel Building Ventilation System Laboratory Carbon Filter Analysis

50572570, STP-257-8601, Div I Standby Gas Treatment System Laboratory Carbon Filter Analysis

50613214, STP-257-8602, Div II Standby Gas Treatment System Laboratory Carbon Filter Analysis

50687998, STP-406-8603, Div. II Fuel Building Ventilation System Laboratory Carbon Filter Analysis

50687999, STP-406-3602, Inservice Testing of Div II Fuel Building Ventilation System

50688118, STP-402-8604, Div I Main Control Room Fresh Air System Laboratory Carbon Filter Analysis

50688123, STP-402-3601, Inservice Testing of Div I Standby Gas Treatment Filtration System

50688149, STP-257-3601, Inservice Testing of Div I Standby Gas Treatment Filtration System

50688209, STP-511-4234, Fuel Building Exhaust Duct Monitoring System Flow Rate Monitor Channel Calibration RMS-FE5B

50967750, STP-511-4206, SCIS/RMS Fuel Building Ventilation Exhaust Radiation Monitor

50970909, STP-257-8601, Div I Standby Gas Treatment System Laboratory Carbon Filter Analysis

50973516, STP-257-8602, Div II Standby Gas Treatment System Laboratory Carbon Filter Analysis

50977003, STP-511-4236, Fuel Building Exhaust Duct Monitoring

50980704, STP-402-3601, Inservice Testing of Div I Control Room Fresh Air System

50981373, STP-402-8604, Div I Main Control Room Fresh Air System Laboratory Carbon Filter Analysis

51014558, STP-511-4580, Liquid Radwaste Effluent Line Radiation Monitor Channel Functional Test RMS-RE-107

Miscellaneous Documents

2003 Annual Radioactive Effluent Release Report
2004 Annual Radioactive Effluent Release Report
Radiochemistry Cross Check Program 2003
Radiochemistry Cross Check Program 2004
ER-RBS-2002-0528: 10CFR50.59 Review for the Reverse Osmosis Liquid Waste System
Radioactive Liquid Discharge Permit Nos. 2005089 - 20050100
Radioactive Liquid Release Status Summary Report: August 2003 - October 2005
Radioactive Liquid Dose Summary Reports: January 2005 - September 2005
Radioactive Gaseous Dose Summary Reports: January 2005 - September 2005

**Section 2PS2: Radioactive Material Processing and Transportation**

Corrective Action Documents

CR 2003-03449, CR 2003-03790, CR 2005-00117, CR 2005-01417

Audits and Self-Assessments

QA-15-2003-RBS-1-Multi, QA Audit Report, Radwaste, September 6, 2003 - November 19, 2003

Procedures

EN-LI-102, Corrective Action Process, Revision 2
ENS-RW-105, Process Control Program, Revision 2
EN-RW-102, Radioactive Shipping Procedure, Revision 1
EN-RW-104, Scaling Factors, Revision 1
SOP-0091, Fuel Pool Cooling and Cleanup Sys (#602), Revision 33
RWS-0336, Set-up and Operation of the RDS-1000 Dewatering Unit, Revision 9
TR-OP-035, Handling Procedure for Duratek Transport Cask Model CNS 8-120B, Revision 18

Shipping Records

2003-120, Class A Resin, Low Specific Activity (LSA), October 29, 2003
2004-022, Class C Filters, LSA, April 21, 2004
2004-037, Class A Resin, LSA, July 7, 2004
2004-065, Class A DAW, LSA, November 1, 2004
2005-060, Class B Resin, Type B, July 19, 2005

Miscellaneous

10 CFR Part 61 Data, all radioactive waste streams, 2003 - 2005

Certificate of Compliance No. 9168, CNS 8-120B Shipping Cask, Revision 15.

HAZMAT Training Records for technicians and supervisors responsible for shipping radioactive material, 2003 - 2005

**Section 2PS3: Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program**

Audits

LO-RLO-2005-00123
NUPIC Audit 19204
QA-6-2003-RBS-1

Condition Reports

| | | |
|---|---|---|
| CR-RBS-2003-3175 | CR-RBS-2004-4130 | CR-RBS-2005-1232 |
| CR-RBS-2003-3522 | CR-RBS-2004-4136 | CR-RBS-2005-2049 |
| CR-RBS-2003-3646 | CR-RBS-2004-4253 | CR-RBS-2005-2457 |
| CR-RBS-2003-3709 | CR-RBS-2005-0092 | CR-RBS-2005-2787 |
| CR-RBS-2003-3785 | CR-RBS-2005-0093 | CR-RBS-2005-2790 |
| CR-ECH-2004-0045 | CR-RBS-2005-0102 | CR-RBS-2005-2981 |
| CR-RBS-2004-0909 | CR-RBS-2005-0232 | CR-RBS-2005-3006 |
| CR-RBS-2004-1514 | CR-RBS-2005-0826 | CR-RBS-2005-3115 |
| CR-RBS-2004-1953 | CR-RBS-2005-1058 | CR-RBS-2005-3213 |
| CR-RBS-2004-2352 | CR-RBS-2005-1059 | CR-RBS-2005-3391 |
| CR-RBS-2004-2796 | CR-RBS-2005-1097 | CR-RBS-2005-3533 |

Procedures

EN-QV-109, Audits, Revision 5

ESP-8-005, Assessment of the Reliability of Results of the Radiological Environmental Monitoring Program, Revision 9

ESP-8-012, Routine Performance Checks of Meteorological Monitoring Equipment, Revision 13

ESP-8-022, Monitoring of Storm Sewers for Radioactivity, Revision 6

ESP-8-028, Deployment and Retrieval of Environmental Thermoluminescence Dosimeters, Revision 11

ESP-8-032, Analysis of Gross Alpha and Gross Beta activity on Particulate Filters

ESP-8-033, Analysis of Gross Beta Activity in Water, Revision 7

ESP-8-034, Gamma Dose Estimation from Environmental Thermoluminescence Dosimeters, Revision 9

ESP-8-036, Gamma Isotopic Analysis for the Environmental Samples, Revision 10

ESP-8-037, Preparation of Environmental Samples for Gamma Isotopic Analysis, Revision 9

ESP-8-042, Radioactive Standard Preparation for Environmental Program, Revision 5

ESP-8-044, Maintenance Performance Checks and Calibration of the Canberra Industries Model 2400/FP Alpha Beta Counting System, Revision 8

ESP-8-050, Conduct of the Radiological Environmental Monitoring Program (REMP), Revision 12

ESP-8-051, Land Use Census, Revision 7

ESP-8-052, Interlaboratory Comparison Program for Radiological Environmental Monitoring, Revision 8

ESP-8-054, Calibration of the Environmental Gamma Ray Spectroscopy System, Revision 11

EV-116, Radiological Environmental Analytical Services, Revision 2

RP-103, Access Control, Revision 2

RP-121, Radioactive Material Control, Revision 1

RP-301, Radiation Protection Instrument Control, Revision 0

RP-304, Operation of Counting Equipment, Revision 2

RP- 404, Operation and Maintenance of HEPA Vacuum Cleaners, Revision 1

RHP-035, Area TLD Program, Revision 02A

RHP-036, 40CFR190 Dose Determination, Revision 00A

RPP-006, Performance of Radiological Surveys, Revision 19

RPP-118, Calibration and Maintenance of Portable Radiological Air Samplers, Revision 3

RSP-008, Offsite Dose Calculation Manual, Revision 12

RSP-216, Radioactive Source Control, Revision 7

RSP-221, Controls for Storage, Monitoring, and Decontamination Areas Outside the Protected Area, Revision 2

Work Orders/Meteorological Instrumentation Calibration

51000594, Meteorological Monitoring-Wind Speed Elev.30FT (Primary) Calibration Test
51000597, Meteorological Monitoring-Wind Direction Elev.150FT (Secondary) Calibration Test
51000598, Meteorological Monitoring-Wind Direction Elev.150FT (Primary) Calibration Test
51000599, Meteorological Monitoring-Wind Direction Elev.30FT (Secondary) Calibration Test
51000600, Meteorological Monitoring-Wind Direction Elev.30FT (Primary) Calibration Test
51000601, Meteorological Monitoring-Wind Speed Elev. 150FT (Secondary) Calibration Test
51000602, Meteorological Monitoring-Wind Speed Elev. 150FT (Primary) Calibration Test
51000603, Meteorological Monitoring-Wind Speed Elev. 30FT (Secondary) Calibration Test