

**A G E N D A**

**OCONEE COUNTY COUNCIL MEETING**

**TUESDAY, DECEMBER 6, 1994**

**7:00 PM**

1. Call to Order
2. Invocation
3. Approval of Minutes
4. Public Hearing Regarding Ordinance 94-11, "An Ordinance to Amend the Agreement for Development of a Joint County Industrial Park Executed on July 25, 1994, by and Among Oconee County, South Carolina, and Williamsburg County, South Carolina, Providing for the Development of a Jointly owned and Operated Industrial/Business Park Geographically Located in Williamsburg and Oconee Counties, so as to Include Additional Property in that Portion of the Joint County Industrial Park Located in Oconee County, South Carolina, and Other Matters Relating Thereto"
5. Third and Final Reading of Above Mentioned Ordinance
6. Second Reading of Ordinance 94-12, "An Ordinance Authorizing An Amendment to the Indenture of Lease Date June 29, 1959 Between Oconee County, South Carolina and Oconee Memorial Hospital Association Whereby (i) The Lease Term is Extended to June 1, 2025 and (ii) The County Approved the Transfer by the Association of all Rights and Interests of the Association to Oconee Memorial Hospital; and (iii) Certain Other Matters in Connection Therewith" as Amended
7. Consideration of Recommendation of Aeronautics Commission to Adopt the Memorandum of Agreement Between the Federal Aviation Administration & Oconee County Regarding the Nondirectional Radio Beacon at the Airport - Mr. Michael Willimon, Chairman
8. Consideration of Request for Payment of Work Performed at the Mt. Rest Convenience Center Outside the Scope of the Contract/Change Order - Mr. Tom Justice, Justice General Contractors
9. Discussion Regarding National Hospice Month - Mr. Gray Miller

**AGENDA**

December 6, 1994

10. Consideration of Request of the Solid Waste Commission to Accept Drinking Water Treatment Alum Sludge from the Cities Water Treatment Plants -Mr. Ralph Nix, Chairman
11. Consideration of Request of the Solid Waste Commission to Rescind the \$1.50 Tire Fee Implemented in January, 1992 - Mr. Ralph Nix, Chairman
12. Discussion Regarding the Extension of the Hospital Lease - Mr. Keith Shuler
13. Discussion Regarding HVAC System for Walhalla Library - Mrs. Martha Baily, Library Director, Mr. Jim Smith, Public Buildings Director & Ms. Marianne Dillard, Purchasing Director
14. Discussion Regarding Adult Services/Reference Librarian - Mrs. Martha Baily, Library Director
15. Consideration of Purchase of Jaws of Life for Emergency Preparedness Pursuant to Section II, C, 4 of Ordinance 85-2, "Oconee County Manual of Centralized Purchasing" - Mr. Alan Horn, Emergency Preparedness Director & Ms. Marianne Dillard Purchasing Director
16. Consideration of Bids for Fire Equipment - Mr. Dewitt Mize, Rural Fire Marshal & Ms. Marianne Dillard, Purchasing Director
17. Consideration of Bids for Repairing of Lunney Museum Roof - Ms. Marianne Dillard, Purchasing Director
18. Consideration of Request from HDR for Additional Funds to Complete Additional Work Requested by DHEC for the Vertical Expansion Permit at the Seneca Landfill - Ms. Marianne Dillard, Purchasing Director
19. Consideration of Proposals for Life Insurance for County Employees Through Payroll Deductions - Ms. Marianne Dillard, Purchasing Director
20. Discussion Regarding Engineering Proposals for Design of Entrance into Square D Company - Ms. Marianne Dillard, Purchasing Director

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**AGENDA**

December 6, 1994

21. Consideration of Approval of Contract Between SC DHEC and Oconee County in the Amount of \$18,551.80 to Purchase Certain EMS Equipment
22. Second Reading of Ordinance 94-2, "An Ordinance Regulating Vehicular Traffic on or Near Coneross Water Shed"
23. Second Reading of Ordinance 94-8, "An Ordinance Amending Ordinance 91-6 & 91-7 So as to Change the Office Hours for Phoenix Cable & County Cable"
24. Second Reading of Ordinance 94-10, "An Ordinance Amending Ordinance 79-19 to Change the Name of the Oconee County City-County Sanitation Commission to the Oconee County Solid Waste Commission"
25. Consideration of Request of Sewer Commission to Purchase a Sludge Drying Machine - Mr. Howard Adams, Chairman, Mr. Lamar Bailes, Finance Director & Mr. Robert Winchester, Director, Sewer Commission
26. Discussion, Consideration and Possible Action Concerning a proposed Agreement and Consent Order By and Between the Oconee County Sewer Commission and Beacon Mfg. Co.
27. Assignment of Consideration of Acceptance of West Pond Fork Roadway Pursuant to Ordinance 91-9 to Vice Chairman of Council - Mr. Norman D. Crain, Supervisor-Chairman
28. Consideration of Approval of County Road Repair Through Add Ons to Federal Grant Contract Oconee WPA #8 not to Exceed \$50,000 - Mr. Buddy Hawk, 911 Coordinator/Right-of-Way Technician
29. Old Business
30. New Business
31. Adjourn

\*\*\*6:45 pm\*\*\* Administrative Briefing

\*\*\*\*6:00 pm\*\*\*\* Purchasing, Contracting, Real Estate, Building & Grounds Committee Meeting for the purpose of discussing proposed lease agreements by and between Duke Power Company and Oconee County for High Falls & South Cove Parks

**MEMBERS, OCONEE COUNTY COUNCIL**

Mrs. M. Fran Burrell, District I    Mr. Harrison E. Orr, District II  
Mr. Michael E. Harper, District III    Mr. Roy B. Strickland, District IV  
Mr. Alton K. Williams, District V

**MINUTES, OCONEE COUNTY COUNCIL MEETING**

The regular meeting of the Oconee County Council was held Tuesday, December 6, 1994 at 7:00 pm in Council Chambers with all Council Members present and the County Attorney present.

Members of the press notified (by mail):  
Journal/Tribune, Keowee Courier, Westminster News, Anderson Independent, Greenville News, WGOG Radio, WBFM Radio, WCCP Radio, WZLI/WLET Radio, WYFF TV, WLOS TV & SC Black Media Group.

Press

Members of the press present: Ashton Hester - Keowee Courier, Dick Mangrum - WGOG Radio, Allen Bowie - Greenville News & Angela Davis - Journal/Tribune.

The meeting was called to order by Supervisor -Chairman Crain who welcomed the guests and media.

Call to Order

The invocation was given by Mr. Orr.

Invocation

Mrs. Burrell made a motion, seconded by Mr. Orr, approved 4 - 0 (Mr. Williams abstaining) that the minutes of the November 15, 1994 meeting be adopted as printed.

Minutes

First on the agenda was a public hearing regarding Ordinance 94-11, "An Ordinance to Amend Oconee County Ordinance 94-7, Providing for the Development of a Jointly Owned and Operated Industrial/Business Park Geographically Located in Williamsburg and Oconee County, so as to include Additional Property in that Portion of the Joint County Industrial Park Located in Oconee County, South Carolina and Other Matters Relating Thereto".

Public Hearing  
Ord. 94-11

Mr. Crain asked three (3) times if there was anyone present with written and/or oral comments regarding the adoption of this ordinance.

Following the public hearing, Mr. Orr made a motion, seconded by Mrs. Burrell that Ordinance 94-11 be adopted on third and final reading.

Mr. Strickland made a motion, seconded by Mr. Orr, approved 5 - 0 that the ordinance be amended to include Greenfield Industries.

The ordinance as amended was then adopted

Mr. Cain advised Council that certain matters needed to be clarified concerning the Hospital expansion project and Ordinance 94-12. The 1959 lease agreement is between Oconee County and the Oconee Memorial Hospital Association. The hospital facility is operated by a Corporation named Oconee Memorial Hospital, Inc. There is some confusion as to the relationship between the Association and the Corporation. Mr. Crain recommended that second reading of Ordinance 94-12 be postponed to give the Hospital officials an opportunity to research and clarify this matter and so that the lease agreement and Ordinance may then be prepared in final form, to include the amendments adopted by Council at the November 15, 1994 meeting.

Hospital  
Ord.94-12

Mr. Cain also advised Council that Hospital representatives had raised the question of whether the consent of the County Legislative Delegation would be needed to amend Item 5 of the original lease to provide that the consent of the County Council or Governing Body of the County be required for a change in the Hospital's Bylaws as opposed to the consent of the Delegation, even though the Delegation was not a party to the original lease agreement. Mr. Crain presented a draft lease agreement to Council and two alternative paragraphs to address this issue. The first paragraph would require dual consent of the Delegation and the County Council/Governing Body of the County Council. Mr. Cain explained stated that this language would help to resolve any question about whether it would be necessary to get the Delegation's consent.

The second alternative would simply make the change from requiring consent of the Delegation to consent of the County Council or successor Governing Body of the County for prior to a change in the Hospital Bylaws.

Upon recommendation from Mr. Cain, County Attorney, Mr. Orr made a motion, seconded by Mr. Strickland, approved 5 - 0 that second reading of Ordinance 94-12, "An Ordinance Authorizing an Amendment to the Indenture of Lease Dated June 29, 1959, Between Oconee County and Oconee Memorial Hospital Association Whereby (i) The Lease Term is Extended to June 1, 2025 and (ii) The County Approves the Transfer by the Association to Oconee Memorial Hospital; and (iii) Certain Other Matters in Connection Therewith" be delayed until December 12, 1994 when the ordinance will be completed in final form to include the amendments adopted by Council at the November 15, 1994 meeting.

Upon recommendation of Mr. Heyward Douglass, Vice Chairman, Aeronautics Commission & Mr. Randy Abbott, Commission member, Mr. Strickland made a motion, seconded by Mr. Orr, approved 5 - 0 that the attached Memorandum of Agreement Between the Federal Aviation Administration & Oconee

Aeronautics

County Regarding the Nondirectional Radio Beacon at the Airport be adopted.

Also at the request of Mr. Douglass & Mr. Abbott, Mr. Williams made a motion, seconded by Mr. Orr, approved 5 - 0 that an inventory account be established for the Aeronautics Commission to purchase items to be sold at the airport such as maps, etc.

Also, at their request Mr. Harper made a motion, seconded by Mr. Strickland, approved 5 - 0 that the Aeronautics Commission be allowed to seek alternative funds to match the local funds set aside for a parallel taxiway and terminal building.

At the request of Mr. Tom Justice of Justice General Contractors, Mr. Strickland made a motion, seconded by Mr. Williams, approved 5 - 0 that the request of Justice General Contractors for \$2,016 over the approved amount by the contract and/or change order for surge stone for the Mountain Rest Convenience Center as approved.

Request of  
Justice  
Contractors

At the request of Mr. Gray Miller of the Hospice of the Foothills, Inc., Mr. Strickland made a motion, seconded by Mr. Orr, approved 5 - 0 that November be designated as "National Hospice Month" each year.

Hospice of  
the  
Foothills,  
Inc.

Upon recommendation of Mr. Ralph Nix, Chairman, & Mr. Jack Hirst, Director, Solid Waste Commission, Mr. Williams made a motion, seconded by Mr. Strickland that they be allowed to accept alum sludge from Westminster, Walhalla & Seneca water plants.

Solid  
Waste

Mr. Williams made a motion, seconded by Mr. Strickland, approved 5 - 0 that the motion be amended to include funds from contingency to amend the Solid Waste Management Act to reflect this change.

Solid  
Waste

The motion as amended was then adopted 5 - 0.

Also, upon recommendation of Mr. Nix & Mr. Hirst, Mr. Strickland made a motion, seconded by Mr. Orr that the \$1.50 fee per tire implemented in January, 1992 for the disposal of tires at the landfill be rescinded.

Mr. Harper made a motion, seconded by Mrs. Burrell, approved 3 - 2 (Mr. Orr & Mrs. Burrell voting against) that the motion be amended to eight (8) tires per day per individual.

The motion as amended was then adopted 3 - 2 (Mr. Orr & Mrs. Burrell voting against).

Mr. Keith Shuler addressed Council regarding the extension of the hospital lease. Mr. Shuler stated that although he was not against a new hospital, he was concerned about the extension of the lease, he stated that many people do not know who owns or operates the hospital. Mr. Shuler further stated that the majority of people in the county do not have confidence in the hospital. Mr. Shuler also questioned if the hospital is a profit making organization and who operates the hospital. He further stated that he felt the county needed to have the facts and figures before them before making a decision.

Hospital

Upon recommendation of Mrs. Martha Baily, Library Director, Mr. Jim Smith, Public Buildings Director & Ms. Marianne Dillard, Purchasing Director, Mr. Strickland made a motion, seconded by Mr. Harper, approved 4 - 0 (Mrs. Burrell abstaining) that the installation of an eighteen (18) unit air cool HVAC system on the outside of Walhalla Library be approved in concept.

Library

At the request of Mrs. Martha Baily, Library Director, Mr. Strickland made a motion, seconded by Mrs. Burrell, approved 5 - 0 that the approximate \$14,000 left in the federal grant and local matching funds for the Adult Services Reference Librarian due to the resignation of this employee be used to purchase materials for the Library rather than hire someone as the grant will expire at the end of this fiscal year.

At the request of Mr. Alan Horn, Emergency Preparedness Director, and upon recommendation of Ms. Marianne Dillard, Purchasing Director, Mr. Strickland made a motion, seconded by Mr. Harper, approved 5 - 0 that the Hurst "Jaws of Life" equipment be purchased for Emergency Preparedness pursuant to Section II, C, 4 of Ordinance 85-2, "Oconee County Manual of Centralized Purchasing" at a cost of \$8,902.95 from MATRX Medical, Inc. be adopted.

Emergency  
Prep'ness

Upon recommendation of Mr. Dewitt Mize, Rural Fire Marshal, & Ms. Marianne Dillard, Purchasing Director, Mrs. Burrell made a motion, seconded by Mr. Strickland, approved 5 - 0 that the bid for rural fire equipment be awarded as delineated on pages 2a, 2b and 2c of the attached bid:

Rural  
Fire

Carolina Firemasters, Inc.	\$5,922.47
Carolina Industrial Sales	777.00
Anderson Fire & Safety Eq. Co.	8,280.30
Carolina Safety Assoc., Inc.	161.70
Firemart	827.82
Stevens Fire Eq.	6,750.00

Vista Sales & Service, Inc.	1,186.50
Slagle's Fire Eq. & Supply Co. Inc.	805.09
Zimmerman Evans	2,522.10

Upon recommendation of Ms. Nancy Clayton, Arts & Historical Commission & Ms. Marianne Dillard, Purchasing Director, Mr. Strickland made a motion, seconded by Mr. Williams, approved 5 - 0 that the bid for modifications to the roof and chimneys at Lunney Museum be awarded to K-Mac Services, Inc. for items 2 - 10 on the attached sheet for a total cost of \$14,998. The funding for this project will come from the Department of Archives - \$5,000, Capital Improvement Account of the Museum - \$5,000, and Oconee County Museum Association - \$5,000.

Lunney  
Museum

Upon recommendation of Mr. Jack Hirst, Solid Waste Director & Ms. Marianne Dillard, Purchasing Director, Mr. Strickland made a motion, seconded by Mr. Williams, approved 5 - 0 that the attached request from HDR Engineering for an additional \$4,000 for additional work requested by DHEC to complete the vertical expansion permit for the Seneca Landfill be adopted.

HDR

Upon recommendation of Mr. Howard Adams, Chairman, Mr. Lamar Bailes, Finance Director & Mr. Robert Winchester, Sewer Commission, Mr. Orr made a motion, seconded by Mr. Strickland, approved 5 - 0 that the concept of the purchase of a sludge drying machine be adopted with the County Attorney drafting the contract for the purchase to present for consideration by the Sewer Commission and County Council.

Sewer  
Comm.

At the request of Mr. Cain, County Attorney, Mr. Orr made a motion, seconded by Mr. Strickland, approved 5 - 0 that Council have an executive session for the purpose of discussing proposed contractual matters and legal matters regarding Eagle Ridge and the proposed Agreement and Consent Order By and Between the Oconee County Sewer Commission and Beacon Mfg. Co. before considering this order. This executive session is to be held at the end of the regular agenda items.

Executive  
Session

Upon recommendation of the Personnel & Intergovernmental Committee, Council voted unanimously to accept the proposal of Cincinnati Life Insurance Company for county employees through payroll deductions.

Life  
Insurance

Upon recommendation of Ms. Marianne Dillard, Purchasing Director, Mr. Strickland made a motion, seconded by Mr. Harper that the bid for engineering services for an access roadway into the Square D plant be awarded to Goldie & Associates as per the attached bid sheet.

Square D

Mr. Harper made a motion, seconded by Mr. Williams, approved 5 - 0 that the motion be amended to include a document whereby the duties in the Grant Award Agreement by and between Oconee County and the South Carolina Coordinating Council for Economic Development be assigned to the Square D Company.

The motion as amended was then adopted 5 - 0.

Mr. Williams made a motion, seconded by Mr. Harper, approved 5 - 0 that the attached contract between The South Carolina Department of Health & Environmental Control and Oconee County in the amount of \$18,551.80 be adopted.

EMS Grant

Mr. Williams made a motion, seconded by Mrs. Burrell, approved 5 - 0 that Ordinance 94-2, "An Ordinance Regulating Vehicular Traffic on or Near Coneross Water Shed Dam 1-A Commonly Known as "Poor Farm Lake" be adopted on second reading.

Ord.94-2

Mr. Orr made a motion, seconded by Mr. Strickland, approved 5 - 0 that Ordinance 94-8, "An Ordinance Amending Oconee County Ordinance 91-6 so as to Amend Section 9 (b) Thereof Relating to the Required Office Hours to be Maintained by the Grantee Named in Said Ordinance" be adopted on second reading.

Ord. 94-8

Mr. Orr made a motion, seconded by Mr. Harper, approved 5 - 0 that Ordinance 94-10, "An Ordinance Amending Oconee County Ordinance 79-19 so as to Change the Name of the Oconee County City-County Sanitation Commission to the Oconee County Solid Waste Commission" be adopted on second reading.

Ord. 94-10

At this time Mr. Crain assigned consideration of acceptance of West Pond Fork Roadway pursuant to Ordinance 91-9 to Mr. Strickland, Vice Chairman due to the fact he has a niece by marriage living on this roadway. Mr. Crain left the room during consideration of this item. (See attached letter)

West Pond  
Fork Rd.

After a briefing in which Mr. Buddy Hawk, Right of Way Technician, in which he informed Council the above mentioned roadway met the criteria of Ordinance 91-9, Mr. Orr made a motion, seconded by Mr. Harper, approved 4 - 0 (Mr. Strickland acting as Chairman) that this roadway be accepted into the county maintenance system pursuant to this ordinance.

Upon recommendation of Mr. Buddy Hawk, 911 Coordinator/Right-of-Way Technician, and Ms. Marianne Dillard, Purchasing Director, Mr. Strickland made a motion, seconded by Mr. Orr, approved 5 - 0 that pursuant to Section II, C 2 & 4 of Ordinance 85-2, "Oconee County Manual of Centralized Purchasing" that the attached list of roadways be added to the Federal Grant Contract Oconee WPEA #8 not to exceed \$50,000.

Roadway  
Repair

At the request of Mr. Hawk, Mr. Orr made a motion, seconded by Mr. Strickland, approved 5 - 0 that \$711 be taken from contingency to go toward the employment of a temporary clerk to replace 911 office personnel out on sick leave.

911  
Clerk

Upon recommendation of the Purchasing, Contracting, Real Estate, Building & Grounds Committee, Council voted unanimously to adopt the attached lease agreements by and between Oconee County and Duke Power Company for High Falls & South Cove Parks contingent upon approval of the County Attorney.

PRT

Upon request of Mr. Steve Leslie, Mr. Strickland made a motion, seconded by Mr. Orr, approved 5 - 0 that Mr. Leslie be allowed to address Council regarding the life insurance proposal awarded.

Insurance

Mr. Leslie informed Council that insurance was very complicated and the company that was chosen did not present all the information that was asked for.

At this time Council went into executive session for the purpose of discussing contractual matters.

Executive  
Session

When open session resumed, Mr. Orr made a motion, seconded by Mr. Harper, approved 5 - 0 that the attached Agreement & Consent Order between Oconee County and the South Carolina Department of Health & Environmental Control be adopted contingent upon approval by DHEC.

Open  
Session

Mr. Orr made a motion, seconded by Mr. Strickland, approved 5 - 0 that Council go into executive session for the purpose of discussing a legal matter.

Executive  
Session

When open session resumed, Mr. Orr made a motion, seconded by Mr. Strickland, approved 5 - 0 that the consent order and documents regarding Eagle Ridge be turned over to the Chief Administrative Judge.

Open  
Session

Adjourn: 11:50 pm

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December 6, 1994

Norman D. Crain / sq  
Norman D. Crain  
Supervisor-Chairman  
Oconee County Council

**NOTICE - PUBLIC HEARING**

There will be a public hearing on an ordinance with respect to proceedings in connection with the amendment of the South Carolina Joint county Industrial/Business Park which amendment is to be entered into by Williamsburg County with Oconee County. Said public hearing is to occur at a meeting of the Oconee County Council December 6, 1994 at 7:00 p.m. in Council Chambers, 208 Booker Drive, Walhalla, SC.

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**Journal/Tribune & The Messenger - Wednesday, November 16, 1994**

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**NOTICE**

There will be a public hearing on an ordinance with respect to proceedings in connection with the amendment of the South Carolina Joint County Industrial/Business Park which amendment is to be entered into by Williamsburg County with Oconee County. Said public hearing is to occur at a meeting of the Oconee County Council December 6, 1994 at 7:00 p.m. in Council Chambers, 208 Booker Drive, Walhalla, S.C.  
Oconee County, S.C.

Norman D. Crain  
Supervisor-Chairman  
Oconee County Council  
(11:16c)



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

2823-A Aviation Way  
West Columbia, SC 29170-2191

September 1, 1994

Mr. Norman D. Crain  
County Supervisor  
Oconee County Mailroom  
Walhalla, SC 29691

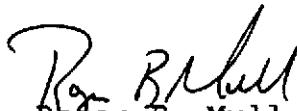
Dear Mr. Crain:

The Operations and Maintenance Manual (OMM) for the nondirectional radiobeacon (CEU/NDB) at Clemson-Oconee County Airport has been rewritten. The current OMM for this facility is to be replaced by the enclosed new OMM.

Please sign (at the tag), or have the appropriate official sign, the memorandum of agreement (as Owner or Designated Representative). Return only the signed memorandum of agreement if you concur. Mark up and return the entire manual if there are errors in names, phone numbers, etc. We will secure the signature of the appropriate FAA official, reproduce, and distribute the new manual to all concerned.

If there are questions or concerns, please call the Sector Nonfederal Coordinator at (803) 822-4410.

Sincerely,

  
Roger B. Mull  
Manager

Enclosure

MEMORANDUM OF AGREEMENT

BETWEEN THE

FEDERAL AVIATION ADMINISTRATION

AND

OCONEE COUNTY, SOUTH CAROLINA

(Owner/Sponsor)

In accordance with the requirements of the applicable provisions of FAR 171 and the enclosed Operations and Maintenance Manual (OMM)

dated 9/1/94, The County of Oconee having installed  
(Owner/Sponsor/Operator)

the CEU NDB at the Clemson-Oconee County  
(Identifier) (Facility Type) (Location/Airport)

hereby accepts the enclosed OMM as approved by the Federal Aviation Administration (FAA).

The undersigned agree to operate and maintain the above facility in accordance with all applicable FAA requirements, standards, and criteria governing such facility, including those requirements contained in the applicable provisions of FAR Part 171 and the enclosed OMM.

The FAA reserves the right to amend the OMM to reflect changes in FAA operating policies and procedures. Such amendments shall be effective 10 days following the mailing of the written notification to the owner or sponsor and the maintenance technician identified in the OMM.

At any time that the undersigned person(s) identified as the maintenance technician(s) in the OMM no longer performs the functions indicated, the FAA shall be notified within 10 working days.

The undersigned agree that noncompliance with the above requirements will be grounds for the cancellation of FAA-approved instrument flight rule procedures.

With regard to any liability which may arise from the use and/or the operation of this facility, each party expressly agrees that it shall be solely and exclusively liable for the negligence of its own agents or employees, in accordance with applicable law, and that neither party looks to the other to save or hold it harmless for the consequences of any negligence on the part of one of its own agents or employees.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
(Owner or Designated Representative)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
(Airway Facilities Division Manager or  
his/her designee)

Enclosure: Operations and Maintenance Manual

OPERATIONS AND MAINTENANCE MANUAL

FOR

CRU/NDB  
(FACILITY IDENTIFIER)

NON-DIRECTIONAL RADIOBEACON  
(FACILITY TYPE)

AT

CLEMSON, SOUTH CAROLINA  
(LOCATION)

(This manual is prepared to fulfill the requirements of Federal Aviation Regulations Part 171 and Section 606 of the Federal Aviation Act of 1958. Facility equipment performance standards and tolerances for facility maintenance incorporated herein as Attachment 1. Facility Equipment Performance Standards and Tolerances. to this manual)

Operation and Maintenance Manual Approved:

\_\_\_\_\_ Date: \_\_\_\_\_ (Airway  
Facilities Division Manager or  
his/her designee)

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## Part I. OPERATIONAL REQUIREMENTS

The following requirements must be met to operate a facility in the National Airspace System (NAS). Failure to comply with these requirements will result in withdrawal of approval for use of the facility.

### 1. Licensing

a. Facility The Federal Communications Commission (FCC) license is to be conspicuously posted at the facility. The normal period of the station license is 5 years, after which time it must be renewed. FCC Form 406 may be obtained from the FCC office. Each application must contain a statement indicating that the FAA has been notified and the date of notification. Renewal applications must be made at least 180 days prior to expiration. Copies of the application and the new license when received must be provided to the Airway Facilities (AF) sector office.

b. Maintenance Technician The equipment shall be operated and maintained only by persons duly licensed by the FCC and approved by the FAA respectively.

(1) A general class radio telephone operator license satisfies the FCC requirement. A copy of this license must be provided to the FAA sector/regional office.

(2) FAA approval will be granted following the successful completion of both of the following:

(a) FAA or FAA-approved manufacturer's school or satisfactory completion of a concept examination to be administered by a representative of the FAA. It is to be understood that the satisfactory completion of the concept examination precludes the necessity of the resident training.

(b) A performance examination to be given by a representative of the FAA.

(3) A letter of technical verification will be provided by the FAA stating that these requirements have been met.

2. NOTICE TO AIRMEN A Notice to Airmen (NOTAM) contains the establishment, condition, or change in any aeronautical facility, service, procedure, or hazard, the timely knowledge of which is essential to personnel concerned with flight operations. Deviation from normal operation or failure of this facility is to be promptly and accurately publicized by a NOTAM. The sponsor and the technician responsible for the equipment maintenance shall be notified immediately of reports concerning irregular operation of this facility by pilots or other persons detecting the irregularity. The sponsor or the authorized representative shall ensure that a NOTAM has been filed through the associated flight service station (FSS). The sponsor or the

authorized representative shall also ensure notification of the applicable AF office by telephone during normal office hours as listed in Part IV, Non-Federal Facility Data, to report any such failure or deviation exceeding or expected to exceed 24 hours. A NOTAM issued by FAA maintenance or flight inspection personnel shall be cancelled only by FAA maintenance or flight inspection personnel. When NOTAM has been issued showing a facility out of service, the facility shall be turned off or may radiate continuously only with the identification removed.

### 3. MONITORING

a. It is FAA policy that a remote monitoring system be provided for all electronics navigational facilities used in support of instrument flight procedure. Continuous monitoring requires that a responsible observer check the remote status indicator at least once each half hour. Suitable monitoring equipment shall be provided at an appropriate location to enable detection of any of the following condition.

- (1) A malfunction or failure of the transmitter equipment.
- (2) A malfunction or failure of the monitor equipment itself.

b. Navigational facilities are classified in accordance with the manner in which they are monitored. No change of monitoring status of the navigational aids shall be effected without prior FAA approval. The monitoring categories are as listed below:

(1) Category 1 Internal monitoring with a status indicator installed at a manned control point. Facilities can be used for instrument flight procedures without limitation. In the absence of a manned control point, the facility reverts temporarily to category 3.

(2) Category 2 Internal monitoring with an inoperative status indicator at a control point, but pilot reports indicate that the facility is operating normally. This is a temporary condition and is not considered in procedures development. These facilities are taken out of service by issuing a NOTAM when two pilot reports indicate facility malfunction.

(3) Category 3 Internal monitoring only. A status indicator not installed at a control point or if a non-fail-safe condition exists. Facilities may be used in accordance with the following limitations:

(a) Alternate minima shall not be authorized if the facility provides a final approach course guidance, is required for procedure entry, is used to define the final approach fix, or is used to provide missed approach guidance.

(b) When the facility is used to designate a step-down fix, alternate minima shall be no lower than the circling minima required without the step-down fix.

(c) Dogleg airways or routes shall not be predicated on these facilities.

(d) Navigation fixes developed from crossing radials of category 3 facilities shall not be used to break a minimum en route altitude to a higher minimum en route altitude.

(4) Category 4 This category is applicable only to nondirectional beacons. Internal monitoring is not installed, but a remote status indicator is provided at a control point. Failure of the status indicator will render the facility and the approach procedure unusable during the outage. Facilities may be used in accordance with the following limitations:

(a) Alternate minima may be authorized when the remote status indicator is located in an FAA traffic facility and then only during periods that the control point is attended.

(b) If the control point is other than an FAA facility, a written agreement shall exist whereby an air traffic facility is notified of indicated changes in facility status.

c. To issue a NOTAM for an unmonitored facility, the following conditions must be met:

(1) The facility is equipped with a properly operating automatic shutdown feature.

(2) No reports of abnormal facility operation are received.

(3) Failure of the remote status indicator.

NOTE: If all of these conditions are not met, a NOTAM to place the facility out of service shall be issued.

4. Shutdown for Routine Maintenance should be performed only when the following conditions exist:

a. Interruption should be confined to visual flight rules (VFR) conditions, daylight hours, and periods of light traffic when possible.

b. The interruption of service shall be coordinated with the appropriate air traffic control (ATC) facility (FSS, airport traffic control tower (ATCT), etc.). Notification should be made so that the notice of shutdown or interruption will be published in advance of the proposed interruption. Facilities shall not be shut down without Air Traffic (AT) approval.

c. A NOTAM shall be in effect announcing the scheduled interruption and the facility will not be shutdown until that specified time has arrived. The advance

notification of the interruption will state a specific period of time for the interruption to occur.

d. The facility identification signal shall be disabled while maintenance is being performed.

5. Pilot Report The sponsor shall remove the facility from service immediately upon receipt of two successive pilot reports (PIREPS) of malfunctioning. The facility will remain out of service until the proper operation can be confirmed by the facility technician and/or flight inspection aircraft if necessary.

6. Required Support Items

a. The sponsor shall provide FAA-approved test equipment needed for maintenance of the facility. Test equipment used to measure key performance parameters shall be calibrated at least annually. All test equipment calibration shall be accomplished with standards traceable to the National Institute of Standards and Technology.

b. There shall be a stock of spare parts sufficient to make possible prompt replacement of components which fail or deteriorate in service.

7. Emergencies

a. Military In a case of a national defense alert, the facility shall be shutdown in the shortest possible time after the alert is received from the air traffic facility and shall remain off the air until official notice is received that the alert is over.

b. Aircraft Accident. Part III of this manual provides guidance in case of an aircraft accident.

8. Adjustment of Equipment through Remote Maintenance Monitoring (RMM)  
Any non-Federal facility having RMM uplink adjustment capability shall have an associated printer which documents all maintenance activities. This printer shall make a record for the review of visiting FAA personnel of all logons and equipment adjustment which may be initiated from a remote terminal. Printouts will be maintained a minimum of 2 years before being discarded.

## PART II MAINTENANCE REQUIREMENTS

### 9. General

a. The facility shall be maintained in accordance with the applicable subparts of FAR Part 171 and manufacturer's instruction books, maintenance technical handbooks, and/or other FAA-approved requirements. FAA standards and tolerances will be used. If they do not exist, then the manufacturer's handbook will be used.

NOTE: The maintenance schedules and requirements contained in these publications are to be considered the minimum level of maintenance in accordance with FAR Part 171 and this document.

b. The FAA shall be responsible for providing FAA forms and appropriate FAA publications or excerpts from FAA publications required for maintenance of the facility. These forms will be made available by the FAA office having inspection responsibility at no charge. Orders and handbooks in their entirety can be ordered from the Public Inquiry Center, APA-200, FAA Headquarters, (202) 267-3484.

c. If a verified maintenance technician is not assigned or if the maintenance schedules as set forth in FAA-approved maintenance procedures are not adhered to, the equipment shall be removed from service unless the sponsor or his/her designated representative has coordinated the exact circumstances with the FAA.

d. Facility reference data file FAA Form 6030-17 series (facility requirements, performance and adjustment data forms, called Record of Meter Readings and Adjustments, Form FAA 198, in FAR Part 171) shall be completed by the owner or the owner's representative at the time of the facility commissioning. One copy must be kept in the permanent records of the facility and one copy must be sent to the appropriate FAA office. The sponsor or the sponsor's representative must revise the data after any major repair, modernization, or retuning to reflect an accurate record of facility operation and adjustment. In the event the data is revised, the owner or the owner's representative must notify the appropriate FAA office of such revisions and forward copies of the revisions to the appropriate FAA office within 10 working days.

### e. Facility Maintenance Log. FAA Form 6030-1

(1) This log (call Facility Maintenance Log, Form 406c, in FAR Part 171) is a permanent record of all of the activities required to maintain the facility. Log entries shall be clear, complete, concise, and recorded in universal time code (UTC). The entries must include all malfunctions encountered in maintaining the facility, including information on the kind of work and adjustments made, equipment failures, causes (if determined), and corrective action take. In addition, the entries must include statements describing periodic maintenance activities required to maintain the facility, facility verification statements, and NOTAM information. The original white pages of the maintenance logs shall be retained at the facility for a period of 3 years. A copy of

the log pages shall be sent to the appropriate AF office for review within 10 working days after the next facility visit after the end of the quarter.

(2) Among the most important entries in the facility maintenance log are those indicating the verification status of a system, subsystem, or equipment. For the purpose of this OMM, the word "certification" used in FAA directives shall be synonymous with "verification." Verification statements shall be entered in the facility maintenance log (FAA Form 6030-1) in accordance with appropriate FAA directives and orders. Attachment 4 is a concise guide for appropriate and required log entries. A verification statement shall be made before returning a system, subsystem, or equipment to service after the system has been out of service due to hardware or software failure and whenever maintenance work that has been performed may have affected verification parameters.

f. Technical Performance Record FAA Form 6000 series (called Radio Equipment Operation Record, Form 418, in FAR Part 171), contains a record of system parameters recorded during each scheduled visit to the facility. The sponsor or the sponsor's representative shall keep the original page at the facility and send a copy to the appropriate FAA office for review within 10 working days after the next facility visit after the end of the quarter.

g. Improvement in maintenance procedure or equipment modifications shall be funded and incorporated by the sponsor following approval by the FAA. An addendum to the OMM, Approved by the FAA, shall be completed if necessary.

h. The sponsor shall submit any proposed modifications to the facility to the FAA for approval and shall not permit any modification to be performed without specific FAA approval.

i. Neither the equipment nor antenna will be replaced or relocated without prior FAA approval. No construction is to be planned in the vicinity that may alter or affect the facility without first coordinating with the FAA. Status monitor receivers shall not be removed or relocated without FAA approval.

j. Vegetation, snow depth, and other potential obstructions to accuracy of the facility operations shall be controlled in accordance with applicable FAA handbooks. Consult with the local Airway Facilities office or the FAA inspector for information on current policy/practice.

10. PHYSICAL SECURITY The facility shall be kept locked at all times. Normal protection shall be provided to ensure that unauthorized personnel do not have access to the equipment.

11. FLIGHT INSPECTION Flight inspections will be performed as stipulated in FAA handbook OAP 8200.1, United States Standard Flight Inspection Manual. The sponsor shall provide ground-to-air communications on 135.85 or 135.95 megahertz

for flight inspection when required. The maintenance technician shall participate in this inspection if required by the FAA. All facilities are flight inspected at least annually. Any activities which might change the signal in space and cannot be verified by ground test equipment or the facility executive monitor (either because the monitor does not check the parameter or because of concurrent changes to the monitor) require a confirming flight inspection. Examples include, but are not limited to:

- a. Relocation or replacement of the antenna.
- b. Relocation or replacement of the transmitter/monitor.
- c. Facility frequency change.
- d. Permanent power reductions of more than 50%.
- e. Permanent power increase to improve usable distance.
- f. Changes to the environment around the antenna which could affect the radiation pattern.

Additional activities requiring flight inspection are outlined in the FAA maintenance technical handbooks and orders.

## 12. GROUND INSPECTION

a. FAA ground inspection will be accomplished on a periodic basis. Prior notification of ground inspection will be given to the facility technician after coordination with the sponsor. Failure to meet the technical standards for equipment maintenance or failure to perform a FAA ground inspection within the tolerance period may be grounds for cancellation of the facility's instrument approach procedure. If this becomes necessary, a NOTAM will be issued showing the facility out of service and action initiated to remove the instrument approach from publication.

b. The FAA may conduct a follow-up inspection when a facility may have been a factor in an aircraft accident/incident (see Part III).

13. SAFETY Occupational Safety and Health Administration requirements should be followed to ensure personnel safety. Vegetation shall be controlled to all access to the facility.

14. NAPRS DATA (To be provided)

### PART III AIRCRAFT ACCIDENT PROCEDURES

15. GENERAL This part has been provided to help expedite the certification/verification of facilities in the event of an aircraft accident and to help ensure that all required actions are accomplished. It contains the following:

a. General information checklist

b. Facility evaluation checklist (completed for each facility evaluated by the certifying/verifying technician).

NOTE: The non-Federal technician completes original checklists. The original accident checklists shall be retained in owner/sponsor office with a copy to the regional AF division. ATTN: AF Aircraft Accident Representative (AFAAR), through the appropriate FAA office.

### 16. INFORMATION AND INSTRUCTIONS

a. There are a series of steps to be performed following an aircraft accident. These steps need to be performed in a very precise manner so that a true and accurate status of a facility is documented. The latest edition of FAA Order 8020.11, Aircraft Accident and Incident Notification, Investigation, and Reporting, is the controlling directive and will take precedence over other instructions where there are conflicts. In general, the steps to be performed are outlined below and will be performed in the following sequence:

- (1) Initial determination of facility status. (paragraph 17)
- (2) Notification of AF/AT of facility status. (paragraph 18)
- (3) Technical evaluation of facility. (paragraph 19)
- (4) Documentation of the condition of the facility. (paragraph 20)
- (5) Notification to the AFAAR of "as-found" condition. (paragraph 21)
- (6) Flight check if applicable. (paragraph 22)

b. When a facility has been identified as possibly being used by an aircraft involved in an accident, a technician will be notified by one of several different people such as systems engineer at the air route traffic control center (ARTCC), AT supervisor, or sector manager. If notification comes from anyone other than sector management, then the non-Federal technician should contact sector management for instructions. Generally, the sector manager (or his designee as shown in Part IV 3g) will be the AFAAR and will provide the guidance to the non-Federal technicians as to who will do what and when. In accordance with FAA Order 8020.11, Flight Standards

(FS) will assign an FAA Investigator In Charge (FAAIIIC) who will direct and control all FAA participation in the investigation.

17. INITIAL DETERMINATION OF FACILITY STATUS This is important because it provides both AT and AF with information that is needed to make other decisions vital to public safety. Unless instructed to the contrary, a non-Federal technician should not do this step alone. Another person should accompany the non-Federal technician to ensure that there is no question in the future as to what took place at the facility. The non-Federal technician making the initial determination of the facility status must have current certification/verification authority on the facility. The person accompanying the technician should be an FAA technician but, if necessary, can be someone else in order to save time. Log entries need to be made indicating the purpose of the visit and the results of the initial determination. The type of information to be obtained during an initial determination visit to a facility are only those items that can visually be learned to ascertain whether a facility was or was not operating normally immediately preceding or at the time of the accident. No adjustments or control functions are to be performed; only that information which can be learned by looking at equipment indicator, meters, etc., shall be used.

NOTE: Complete paragraphs 1 through 2a(3)(d) of the facility evaluation checklist.

18. NOTIFICATION TO AT/AF OF FACILITY STATUS The information obtained on the facility status must be given to the AFAAR as soon as possible. A log entry stating who was given this information must be made at the facility.

NOTE: Complete paragraphs 2a(3)(e) and 2b of the facility evaluation checklist.

19 TECHNICAL EVALUATION OF FACILITY When a non-Federal technician has been notified by the AFAAR or AF field office manager that a complete technical evaluation of a facility is to take place, two people will be involved in the evaluation process. One person will be the non-Federal technician responsible for performing the evaluation and is required to possess current certification/verification authority on the facility involved. The other person (FAA technician) will act as an observer and will normally possess current certification/verification authority. The requirement for an observer can only be waived by the AFAAR. If no waiver has been granted, the technical evaluation is NOT to take place without an observer. If the observer requirement has been waived, then the person doing the evaluation shall not be the last person who certified/verified the facility.

NOTE: Complete paragraphs 3 and 4 of the facility evaluation checklist.

20. DOCUMENTATION OF THE CONDITION OF THE FACILITY This step is

just as important as any other and needs to be done with attention to detail. This includes entries in technical performance records, facility maintenance logs, RMM screens, and ground check forms. The statements shown in the facility evaluation checklist have been established to provide a standard description that can be uniformly interpreted by everybody concerned with the accident. It is extremely important that all entries are accurate and complete.

21. NOTIFICATION TO THE AFAAR OF "AS-FOUND" CONDITION This step needs to be completed as soon as possible so that decisions can be made regarding further actions, such as whether or not to call for a flight check.

22. FLIGHT CHECK IF APPLICABLE This is determined by the FAAIC.

GENERAL INFORMATION CHECKLIST  
(Aircraft Accident/Incident)

NOTE: The non-Federal technician completes original which is retained in the owner/sponsor office and provides a copy to the regional AF division, ATTN: AFAAR, through the sector office.

1. Non-Federal \_\_\_\_\_/AT \_\_\_\_\_  
(Name of first non-Fed person contacted by AT and name of AT person).

If not notified by AT, indicate who made the initial notification on the above line.

\_\_\_\_\_ time notified.  
(All times in UTC.)

2. The non-Federal person in paragraph 1 shall contact the AFAAR and his/her owner/sponsor and others as required by these instructions.

\_\_\_\_\_ time completed.

3. The AFAAR will determine with AT's help which facilities may have been or were used by; the aircraft, also the aircraft number and type and location of crash, time of crash, and type of flight plan.

Facilities Identified by AFAAR:

<u>Location ID</u>	<u>Facility</u>	<u>Location ID</u>	<u>Facility</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Aircraft Type: \_\_\_\_\_ Aircraft ID: \_\_\_\_\_ Date/Time of Accident: \_\_\_\_\_

Location of crash if known: \_\_\_\_\_

Aircraft on: \_\_\_ IFR \_\_\_ VFR \_\_\_ No flight plan

Technician \_\_\_\_\_  
Signature Title

just as important as any other and needs to be done with attention to detail. This includes entries in technical performance records, facility maintenance logs, RMM screens, and ground check forms. The statements shown in the facility evaluation checklist have been established to provide a standard description that can be uniformly interpreted by everybody concerned with the accident. It is extremely important that all entries are accurate and complete.

21. NOTIFICATION TO THE AFAAR OF "AS-FOUND" CONDITION This step needs to be completed as soon as possible so that decisions can be made regarding further actions, such as whether or not to call for a flight check.

22. FLIGHT CHECK IF APPLICABLE This is determined by the FA-AIC.

GENERAL INFORMATION CHECKLIST  
(Aircraft Accident/Incident)

NOTE: The non-Federal technician completes original which is retained in the owner/sponsor office and provides a copy to the regional AF division, ATTN: AFAAR, through the sector office.

1. Non-Federal \_\_\_\_\_/AT \_\_\_\_\_  
(Name of first non-Fed person contacted by AT and name of AT person).

If not notified by AT, indicate who made the initial notification on the above line.

\_\_\_\_\_ time notified.  
(All times in UTC.)

2. The non-Federal person in paragraph 1 shall contact the AFAAR and his/her owner/sponsor and others as required by these instructions.

\_\_\_\_\_ time completed.

3. The AFAAR will determine with AT's help which facilities may have been or were used by; the aircraft, also the aircraft number and type and location of crash, time of crash, and type of flight plan.

Facilities Identified by AFAAR:

<u>Location ID</u>	<u>Facility</u>	<u>Location ID</u>	<u>Facility</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Aircraft Type: \_\_\_\_\_ Aircraft ID: \_\_\_\_\_ Date/Time of Accident: \_\_\_\_\_

Location of crash if known: \_\_\_\_\_

Aircraft on: \_\_\_ IFR \_\_\_ VFR \_\_\_ No flight plan

Technician \_\_\_\_\_  
Signature Title



- (b) Weather condition at facility: \_\_\_\_\_
- (c) Initial determination of facility operational status. Determine and log. \_\_\_\_\_
- (d) Main or standby (#1 or #2) in service, commercial, or standby power in operation, monitor alarms, transfers, etc. \_\_\_\_\_
- (e) AT facility/AFAAR notified of initial determination: \_\_\_\_\_

\_\_\_\_\_  
 Normal      Abnormal or  
                  Out of service  
 \_\_\_\_\_

b. Initial determination of facility:

\_\_\_\_\_  
 (Facility/time verification completed)

3. If instructed by the AFAAR, the certifying/verifying non-Federal technician shall proceed with the technical evaluation and measurement of the facility performance and make appropriate entries in the facility logs and technical performance records. The technical performance of facilities, systems, or equipment shall be determined by checking all certification/verification parameters required by the applicable technical maintenance orders. The certification or verification parameters are listed in the appendix of the maintenance directive for the facility being evaluated. Arrange for an observer with AFAAR or supervisor and measure all required parameters or observe at the RMM positions as applicable.

a. Observer requirement waived by the AFAAR?      Yes \_\_\_ No \_\_\_

If yes, record below the name of the technician(s) who last certified/verified the facility/facilities:

\_\_\_\_\_                      \_\_\_\_\_  
 Facility                              Technician

**NOTE: NO EQUIPMENT ADJUSTMENTS ARE TO BE MADE UNTIL THE "AS-FOUND" READINGS ARE RECORDED AND/OR AFTER THE FLIGHT CHECK (IF REQUIRED) IS ACCOMPLISHED.**

b. If a transfer has occurred since the last facility visit, take the following action:

(1) If a facility is remotely monitored, contact the monitoring point and ask if there have been any short duration alarms or facility transfers indicated.

\_\_\_\_\_

(2) If no transfers or intermittent alarms have occurred within a period beginning 1 hour prior and ending 30 minutes after the accident, take the necessary action to certify/verify only equipment found in operation upon arrival. If there is any question about whether the standby equipment was in operation at the time of the accident, certify/verify it also. When in doubt, certify/verify.

\_\_\_\_\_

(3) If unable to determine if there were any transfers or alarms within the times specified in subparagraph (2) above, proceed to certify/verify the equipment (main and standby).

\_\_\_\_\_

c. If the facility is not operational upon arrival, proceed as follows:

(1) Note the status of the monitor and transfer unit if such a unit is installed. Record the facility status in the log. (Verify monitor indications at the remote monitoring facility if practical).

\_\_\_\_\_

(2) Dial or push the reset button; do not make any adjustments.

\_\_\_\_\_

(3) If the facility returns to normal, make required meter readings and log entries, then notify the control point and the AFAAR.

\_\_\_\_\_

(4) If the facility fails to restore to normal after resetting it, notify the AFAAR immediately for further instructions.

\_\_\_\_\_

d. Facilities with published ground-check procedures shall have the ground-check performed.

\_\_\_\_\_

4. Any certification/verification parameter out of tolerance?

Yes \_\_\_ No \_\_\_

a. If no, proceed to checklist paragraph 5.

b. If yes, list the facility and the name of the verification parameter:

Facility

Verification Parameter

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

c. Take appropriate action to remove the facility from service and advise the AFAAR of the out-of-tolerance condition. Measure and record all key performance parameters.

d. Was any key performance parameter (listed in the maintenance handbook) determined to be "not germane" to the evaluation and thus not measured?

Yes \_\_\_ No \_\_\_

NOTE: This must be coordinated with the AFAAR.

If yes, were details of the omission logged in the facility log?

Yes \_\_\_ No \_\_\_

5. Is a flight check required? Yes \_\_\_ No \_\_\_

NOTE: Coordinate with AFAAR for this determination.

6. Specific Documentation of Data and Adjustments

a. Meter readings shall be recorded accurately on the appropriate FAA Form 6000 series, Technical Performance Record(s), or on FAA Form 6030-1, Facility Maintenance Log(s). for RMM facilities, all required certification or verification screens shall be taken and a hard copy retained if remotely certified or verified. Each screen must be certified or verified. If the equipment involved is operational, a set of as-found readings or screens shall be recorded prior to any preventive or corrective maintenance. Normally, no such maintenance will be accomplished at a facility subject to flight check until after the flight check crew has determined the as-found condition of the facility. However, if weather or other circumstances cause the flight check to be unduly delayed and there is an urgent need to restore a failed facility to normal operation prior to flight inspection in order to make it available to other users, the decision to do so shall rest jointly with the regional AT, FS, and AF division managers.

(1) This decision should be based upon the recommendations of the responsible AF sector manager and the AT facility manager. If a facility subject to flight check is restored to operation preceding the start of the flight check, a set of as-left readings or screens shall be recorded and so identified following any maintenance action(s). A statement that the system, subsystem, equipment, or facility is not certified/verified for user use shall be entered following the as-left statement on the facility maintenance log.

(2) If the system, subsystem, equipment, or facility cannot be restored or is considered unreliable (in the judgement of the non-Federal technician), the certification/verification will be removed.

(3) A statement shall be entered immediately below each set of readings or each screen identifying whether they are "as found" or "as left" following. . . (specify exactly what preventive or corrective action was taken). If no adjustments or other maintenance were accomplished, a single statement will suffice, followed by a certification or verification statement if the entries were made on facility maintenance log. The statement to be used on the technical performance record is shown below:

FAA FORM 6000 SERIES AND RMM SCREENS

"I certify/verify that the above is a true record of the

\_\_\_\_\_ meter readings  
(Enter facility location identifier and facility type)

\_\_\_\_\_  
(Enter "as found" or "as left" or "as found and left" or "screens" at the date and time indicated.)

Check Off

Technician:

\_\_\_\_\_  
(Signature)

Yes \_\_\_

\_\_\_\_\_  
(Title)

Observer:

\_\_\_\_\_  
(Signature)

Yes \_\_\_

\_\_\_\_\_  
(Title)

b. Facility maintenance log entries shall describe conditions as found in clear, concise language. A typical entry covering an instrument landing system (ILS) glide slope post-accident evaluation visit wherein no out-of-tolerance conditions were found might be as follows:

"08 1030 - The operation of the ILS glide slope on runway was checked at 0930 this date and found to be normal. Certification/verification performance parameters or screens are within established standards and tolerances and certified."

For RMM facilities, all facility maintenance log certification/verification entries shall be entered in the appropriate prime log.

c. Each log entry covering checks made as a result of an aircraft accident shall be certified/verified. The statements to be used for facility log entries are shown below:

FAA Form 6030-( ) Log

"I certify/verify that this is a true and complete statement of my findings with regard to the \_\_\_\_\_ for the date \_\_\_\_\_  
(Identify facility/equipment)  
and time indicated."

NOTE: "Certify/verify" refers to the statement in paragraph 6c above, not facility certification/verification.

"The following corrective action(s) were accomplished (if applicable)."

\_\_\_\_\_  
\_\_\_\_\_

"The following key performance parameters were not germane to this evaluation and are omitted (if applicable)."

\_\_\_\_\_

"The \_\_\_\_\_ is  
(system, subsystem, equipment, or facility)

\_\_\_\_\_  
"\_\_\_\_\_  
(certified/verified, out-of-service, unreliable, and certification/verification is removed in accordance with Order 6000.15).

Check Off

Technician: \_\_\_\_\_  
(Signature)

Yes \_\_\_

\_\_\_\_\_  
(Title)

Observer: \_\_\_\_\_  
(Signature)

Yes \_\_\_

\_\_\_\_\_  
(Title)

Waived \_\_\_

Ground Check Performed:

Yes \_\_\_  
Not Applicable \_\_\_

d. In the event that a facility flight inspection is to be performed as a result of an accident, non-Federal personnel shall record on the FAA Form 6000 series, screens and the FAA Form 6030-1 as indicated above:

- (1) Conditions "as found" before the flight check.
- (2) Concise description of all adjustments or other maintenance performed subsequent to the accident and the reason therefore.
- (3) Concise description of all adjustments made during the flight inspection.
- (4) Conditions "as left" following the flight inspection.

PART IV. NON-FEDERAL FACILITY DATA

1. Facility.

- a. Type Nondirectional Radiobeacon
- b. Identifier CEU/NDB
- c. Facility Name Clemson NDB
- d. Airport Name Clemson-Oconee County
- e. Location (City & State) Clemson, SC
- f. Directions to Facility On the airport
- g. Site Elevation (MSL) 891'
- h. Antenna Elevation (AGL) 55'
- i. Latitude/Longitude 43 40 25/82 53 13
- j. Frequency 257 khz
- k. FCC Licensed Power 25W Modulation Class N/A
- l. License Number 822696
- m. License Expiration Date 4/21/97

2. Equipment.

- a. Manufacturer Southern Avionics
- b. Transmitter Model SS-250
- c. Internal Monitor/Shutdown: Yes x No
- d. External Monitor/Status: Yes x No
- e. Receiver Manufacturer Southern Avionics

- f. Receiver Model MR-7A
- g. Transmitter Antenna Type/Model Twin 'T' (55x350')
- h. Standby Power (Type) None

3. Contacts.

- a. Sponsor  
Name County of Oconee
- b. Sponsor's Representative:  
(1) Name/Title Mr. Norman D. Crain, Co. Supervisor  
(2) Telephone 803/638-4242  
(3) Address Oconee County Mailroom  
Walhalla, SC 29691
- c. Verified Maintenance Technician:  
(1) Name Mr. Larry Turner  
(2) Telephone 803/878-6331  
(3) Address 131 Allgood Drive  
Pickens, SC 29671  
(4) FCC License Number \_\_\_\_\_
- d. Person in charge of monitoring location:  
(1) Name Shift Supervisor, Campus Police  
(2) Telephone 803/656-2222  
(3) Address Tiger Stadium, Clemson University  
Clemson, SC 29634  
(4) Monitoring Hours 24
- e. Federal Aviation Administration-Air Traffic and Airway Facilities:  
(1) Associated MCC/Telephone (CAE) 803/822-4410  
(2) Associated ARTCC/Telephone (JAX) 904/632-1501  
(3) Associated AFSS/FSS/Telephone (AND) 803/224-8151  
(4) Associated FIAO (ATL) 404/505-6681
- f. Submit required forms to appropriate Airway Facilities Office:  
(1) Name Columbia Airway Facilities Sector  
(2) Address 2823-A Aviation Way  
West Columbia, SC 29170-2191
- g. FAA telephone number contacts for aircraft accidents:  
(1) Associated MCC/Telephone (CAE) 803/822-4444  
(2) Flight Standards: (CAE) 803/765-5931  
(3) Associated AFSS : (AND) 803/224-8151

ATTACHMENT 1  
Facility Equipment Performance Standards and Tolerances

If an FAA Maintenance Handbook is applicable to the Non-Federal equipment, include a copy of Chapter 3. If no handbook is applicable refer to the appropriate section of the equipment Technical Instruction Manual.

## CHAPTER 3. STANDARDS AND TOLERANCES

### 51. GENERAL

This chapter prescribes the standards and tolerances for nondirectional beacon (NDB) facilities as defined and

described in Order 6000.15A. All key performance parameters and/or key inspection elements are identified by an arrow (→) placed to the left of the appropriate item.

Parameter	Reference Paragraph	Standard	Tolerance/Limit	
			Initial	Operating
→52. RF CARRIER ANTENNA CURRENT . . . . .	141	Antenna current as established by flight inspection	Same as standard	±30 percent of initial
53. MODULATION LEVELS . . . . .	142			
a. NDB Nonsimultaneous Transmitter Output (Voice or Tone) . . . . .		90 percent	Standard ±5 percent	80 to 95 percent
b. NDB Simultaneous Transmitter Output . . . . .				
(1) Voice . . . . .		70 percent	Standard ±5 percent	60 to 75 percent
(2) Tone . . . . .		20 percent	15 to 20 percent	Same as initial
→ 54. FREQUENCY . . . . .	147			
a. Carrier . . . . .				
(1) One Frequency . . . . .		Authorized	Standard ±.01 percent	Same as initial
(2) Two Frequency . . . . .				
(a) Carrier . . . . .		Authorized	Standard ±.01 percent	Same as initial
(b) Sideband . . . . .		1020Hz above the carrier frequency	970 to 1070Hz above the carrier frequency	Same as initial
b. Identification . . . . .				
(1) 400Hz Tone . . . . .		400Hz	375 to 425Hz	Same as initial
(2) 1020Hz Tone . . . . .		1020Hz	970 to 1070Hz	Same as initial
→ 55. MONITOR ALARM POINTS . . . . .	143			

Parameter	Reference Paragraph	Standard	Tolerance Limit	
			Initial	Operating
<b>a. Local Monitor</b>				
(1) Antenna current .....		70 percent of normal antenna current	≥70 percent of normal antenna current	Same as initial
<b>(2) Modulation</b>				
(a) Loss of tone .....		Alarms	Same as standard	Same as standard
(b) Continuous tone .....		Alarms	Same as standard	Same as standard
<b>b. Remote Monitor</b>				
(1) Facilities without local power monitor .....		70 percent of normal antenna current	≥70 percent of normal antenna current	Same as initial
(2) Facilities with local power monitor .....		Appropriate indication of facility shutdown	Same as standard	Same as standard
→ 56. SHUTDOWN TIME DELAY .....	145	≤70 seconds	Same as standard	Same as standard
<b>57. ANTENNA SYSTEM</b>				
a. Insulation Resistance .....	146	Infinity	≥50 megohms	≥20 megohms
<b>b. Spark Gap Setting</b>				
(1) Class HH .....		1 to 2 inches (2.56 to 5.13 centimeters)	Same as standard	Same as standard
(2) Class H .....		1/2 to 1 inch (1.28 to 2.56 centimeters)	Same as standard	Same as standard
(3) Class MH .....		3/8 to 1/2 inch (0.96 to 1.28 centimeters)	Same as standard	Same as standard
(4) LOM and LMM .....		1/4 to 3/8 inch (0.64 to 0.96 centimeters)	Same as standard	Same as standard
58.-99. RESERVED.				

ATTACHMENT 2  
Periodic Maintenance

If an FAA Maintenance Handbook is applicable to the Non-Federal equipment, include a copy of Chapter 4. If no handbook is applicable refer to the appropriate section of the equipment Technical Instruction Manual.

## CHAPTER 4. PERIODIC MAINTENANCE

### 100. GENERAL.

a. This chapter establishes the maintenance activities required for NDB equipment on a periodic, recurring basis, and the schedules for their accomplishment. The chapter is divided into two sections. The first section identifies the performance checks (i.e., tests, measurements, and observations) of normal operating controls and functions, which are necessary to determine whether operation is within established tolerances/limits. The second section is reserved. Refer to the latest edition of Order 6000.15 for additional general guidance.

b. The following are required key performance checks and maintenance tasks and the maximum intervals between successive accomplishments to insure that the performance of the facility is reliable and within designated technical tolerances. The regions may shorten the time intervals specified, but may not lengthen them, except on a test basis at a limited number of locations. A copy of each regionally authorized increase in the established time intervals, complete with justification, shall be forwarded to Operational Support.

101.-109. RESERVED.

### Section 1. PERFORMANCE CHECKS

<i>Performance Checks</i>	<i>Reference Paragraph</i>	
	<i>Standards &amp; Tolerances</i>	<i>Maintenance Procedures</i>
<b>110. BIWEEKLY. (Tube-Type Without Local Monitor)</b>		
a. Check antenna current . . . . .	52	141
b. Alternate equipment at dual-equipment facilities . . . . .	N/A	144
c. Check voice/identification quality . . . . .	N/A	148
<b>111. MONTHLY. (Tube-Type With Local Monitor)</b>		
a. Check antenna current . . . . .	52	141
b. Alternate equipment at dual-equipment facilities . . . . .	N/A	144
c. Check voice/identification quality . . . . .	N/A	148
<b>112. SEMIANNUALLY.</b>		
a. Check antenna current (solid-state only) . . . . .	52	141
b. Check voice/identification quality . . . . .	N/A	148
c. Check modulation . . . . .	53	142
d. Check monitor alarm points . . . . .	55	143
e. Check auto shutdown . . . . .	56	145
f. Check automatic reset . . . . .	N/A	149

<i>Performance Checks</i>	<i>Reference Paragraph</i>	
	<i>Standards and Tolerances</i>	<i>Maintenance Procedures</i>
113. ANNUALLY.		
a. Measure frequencies .....	54	147
b. Measure and record the leakage resistance of the transmission lines ..	57	146
114.-119. RESERVED.		

Section 2. OTHER MAINTENANCE TASKS

<i>Maintenance Tasks</i>	<i>Reference Paragraph</i>	
	<i>Standards and Tolerances</i>	<i>Maintenance Procedures</i>
* 120. ANNUALLY. (Polestar Model PA-35D LF/MF Antenna System) .....	N/A	160
a. Inspect and clean antenna.		
b. Inspect for loose cable connections.		
* c. As Required. Verify that the vswr is within required limits .....	—	172
after a period of severe weather involving lightning strikes in the area of NDB.		
121.-129. RESERVED.		

ATTACHMENT 3  
Maintenance Procedures

If an FAA Maintenance Handbook is applicable to the Non-Federal equipment, include a copy of Chapter 5. If no handbook is applicable refer to the appropriate section of the equipment Technical Instruction Manual.

## CHAPTER 5. MAINTENANCE PROCEDURES

### 130. GENERAL.

a. This chapter establishes the procedures for accomplishing the various essential maintenance activities that are required for nondirectional beacons (NDB) on either a periodic or incidental basis. The chapter is divided into three sections. The first section describes the procedures to be used in making the performance checks listed in chapter 4, section 1. The second section is reserved. The third section describes the procedures for accomplishing the special tasks, usually non-scheduled and not listed in chapter 4.

b. Microprocessor-based facilities that have the capability to use data terminals for readout of NDB parameters may use these readings in lieu of the readings obtained with external test equipment. The following procedures are generic in nature and may be used with all NDB equipment types. The results of these test, measurements, and observations shall be compared to the prescribed tolerances and limits of chapter 3. Refer to Order 6000.15A, General Maintenance Handbook for Airway Facilities, for additional general guidance.

131.-139. RESERVED.

### Section 1. PERFORMANCE CHECK PROCEDURES

#### 140. FAA FORM 6740-1 ENTRIES.

Order 6000.15A contains policy, guidance, and detailed instructions for field use of FAA Form 6740-1, Technical Performance Record, Nondirectional Beacon (NDB). Figure 5-1 is a sample FAA Form 6740-1 that shows typical entries for normal and unsatisfactory conditions that may be encountered.

#### 141. MEASUREMENT OF ANTENNA CURRENT.

a. Object. This procedure provides a method to determine if the antenna current of the NDB facility is within operating tolerance.

b. Discussion. The coverage of an NDB facility is determined by the current in the vertical radiating element of the antenna system. Therefore, the antenna current becomes the certification parameter for coverage. Antenna current can be read from the rf ammeter located in series with the antenna loading coil. For microprocessor based systems the current can be read directly from the appropriate data screen.

c. Test Equipment Required. None.

d. Conditions. The facility is operating normally.

e. Detailed Procedure.

(1) At facilities with data terminals, obtain the proper screen to determine the facility antenna current and complete steps (3), (4), and (5). If the facility does not use a data terminal, proceed to step (2).

(2) If the antenna ammeter is provided with a shorting switch, turn the shorting switch to the unshorted position.

(3) Read the antenna current during a period when the transmitter is unmodulated. Record the antenna current on FAA Form 6740-1.

(4) Determine if the antenna current is within the operating tolerance.

(5) Restore the facility to normal operation.

#### 142. MEASUREMENT OF MODULATION LEVELS.

a. Object. This procedure provides a method to determine if voice and identification tone modulation percentages are within operating limits.

b. Discussion. The measurement of modulation percentage of NDB transmitters shall be made at the output of the transmitter rather than by sampling the radiated signal from the antenna. This is due to the high Q antenna circuit attenuating the sidebands relative to the carrier, thus reducing the percentage of modulation of the radiated signal. If the measurement were to be made by sampling the radiated signal, it is likely that the transmitter percent of modulation would exceed 100 percent, causing excessive voltages and currents to be produced in the transmitter.

c. Test Equipment Required. Oscilloscope or data terminal.

d. Conditions. A facility shutdown is required for this check except at microprocessor based facilities.



## e. Detailed Procedure.

(1) At facilities with data terminals, obtain the proper screen to determine the facility modulation percentage for the appropriate voice or identification parameter and complete steps (6) and (7). If the facility does not use a data terminal proceed, to step (2).

(2) Connect the vertical input of the oscilloscope to the transmitter output. This connection must be made after the transmitter output filter.

(3) Remove voice modulation from the transmitter (if present). Set the identification modulation to constant tone.

(4) Adjust the oscilloscope to display the modulation envelope.

(5) Calculate the modulation percentage, using the following formula:

$$\% \text{ mod} = \frac{E_{\max} - E_{\min}}{E_{\max} + E_{\min}}$$

(6) Record the modulation percentage on FAA Form 6740-1.

(7) Ascertain that the modulation percentage is within operating limits and that the modulation envelope is distortion free.

(8) Restore the facility to normal operation.

(9) If the facility has voice capability, remove the tone identification.

(10) With a normal voice transmission, repeat steps (4) through (8), measuring the modulation percentage during voice peaks.

(11) Restore the facility to normal operation.

## 143. MONITOR ALARM POINTS.

a. Object. This procedure provides a method to determine if the monitor will alarm if the antenna current is reduced below operating limits, or if the identification tone or keying fails.

b. Discussion. Monitor alarms in the NDB equipment should result in an equipment transfer and/or shutdown. This check determines if the antenna current at which the local monitor alarms is within the operating limits and that the monitor will alarm if the identification tone or keying fails.

This check also determines if the remote monitor receiver, if present, indicates the proper status of the facility.

c. Conditions. A facility shutdown is required for this check.

d. Test Equipment Required. None.

## e. Detailed Procedure.

(1) If applicable, bypass the monitor to eliminate the time delay in the monitor.

(2) Reduce the transmitter output until the monitor indicates an alarm condition.

(3) Record the antenna current at monitor alarm on FAA Form 6740-1.

(4) Ascertain if the antenna current alarm point is within operating limits.

(5) Restore the facility to normal operation.

(6) Remove the identification keying.

(7) Verify that the monitor alarms.

(8) Restore the facility to normal operation.

(9) If applicable, set the identification keying to constant tone.

(10) Verify that the monitor alarms.

(11) If applicable, verify that the remote indications are correct.

(12) restore the facility to normal operation.

## 144. ALTERNATE EQUIPMENT.

a. Object. This procedure provides a method to alternate equipment at a dual- equipment facility on a scheduled basis and to determine that the automatic transfer function and standby equipment is operating properly.

b. Conditions. The facility is operating normally. Advance coordination of this maintenance activity with Air Traffic is required.

## c. Detailed Procedure.

(1) Simulate an alarm of sufficient duration to cause the equipment to transfer.

(2) Determine if the proper local and remote indications occur.

(3) Continue normal facility operation with the alternate equipment.

#### 145. LOCAL AND REMOTE MONITOR SHUTDOWN OPERATION.

a. Object. This procedure provides a method to determine that a shutdown is properly sensed at the local and remote control points.

b. Discussion. Antenna current and/or modulation alarms in the NDB equipment should result in an equipment transfer and/or shutdown. Also, if the equipment is remotely monitored, there should be an indication that the facility is shut down.

c. Conditions. The facility is operating normally. Advance coordination of this maintenance activity with Air Traffic is required.

##### d. Detailed Procedure.

(1) Simulate a continuous alarm.

(2) Allow a shutdown to occur.

(3) Ascertain that the shutdown time delay is within operating limits.

(4) Determine if the proper local and remote alarm indications occur.

(5) If remote restore capability is installed, restore the facility from the remote control point.

(6) Enter completion of this check in the facility log.

#### 146. TRANSMISSION LINE INSULATION RESISTANCE.

a. Object. This procedure provides a method to measure the insulation resistance of coaxial transmission lines.

b. Discussion. Low insulation resistance in a coaxial transmission line usually indicates a breach of the integrity of the line, contamination of the cable dielectric, or a deteriorated connector. Moisture within a connector is a common cause of low insulation resistance.

c. Test Equipment Required. Insulation tester.

d. Conditions. The transmission line must be disconnected at both ends. A facility shutdown is required.

##### e. Detailed Procedure.

(1) Disconnect the transmission line under test at both ends.

(2) Connect the insulation tester between the center conductor and the shield. Operate the tester in accordance with its instructions.

(3) Record the insulation resistance on FAA Form 6740-1.

(4) Ascertain that the insulation resistance is within operation limits.

NOTE: If any transmission line measures less than infinite insulation resistance, especially new lines or those that previously have measured infinity, consider corrective action even though the measurement is within operating limits.

(5) Restore the facility to normal operation.

#### 147. RF AND AUDIO FREQUENCIES.

a. Object. This procedure provides a method to measure the NDB facility carrier and audio frequencies.

b. Discussion. The carrier and audio frequencies are measured at the output of the transmitter and identification oscillator respectively, using an electronic counter. Microprocessor-based facilities that use data terminals for the readout of NDB parameters may use these readings in lieu of the readings obtained with electronic counter.

c. Test Equipment Required. Electronic counter or data terminal.

d. Conditions. Normal, except where facility identification keying is interrupted, the facility must be advertised as "out of service for maintenance."

##### e. Detailed Procedure.

(1) At facilities with data terminals, obtain the proper screen to determine the facility carrier and identification frequencies and complete steps (4), (6), and (7). If the facility does not use a data terminal, proceed to step (2).

(2) Allow the electronic counter sufficient time to warm up.

(3) Connect the electronic counter to sample the transmitter rf signal.

(4) Record the carrier frequency on FAA Form 6740-1.

(5) Connect the electronic counter to a steady tone from the identification oscillator. On some older units, the keyer motor must be stopped with the keying contacts closed.

(6) Record the oscillator frequency (400 or 1020Hz) on FAA Form 6740-1.

(7) Ascertain that both the carrier and identification frequencies are within operating limits.

#### 148. IDENTIFICATION AND VOICE QUALITY.

a. Object. This procedure provides a method to determine that the identification and voice signals are being radiated clear and undistorted.

b. Discussion. The identification and voice transmissions can be monitored at the facility, on the car radio, or at the remote monitoring point. The information should be clear and undistorted.

c. Test Equipment Required. A suitable device to monitor the identification or voice broadcast.

d. Detailed Procedure.

(1) Monitor the radiated tone identification quality for satisfactory results and record findings on FAA Form 6740-1.

(2) If applicable, request a voice broadcast and monitor the radiated signal quality for satisfactory results. Record the results on FAA Form 6740-1.

#### 149. AUTOMATIC RESET

a. Object. This procedure provides a method to check the operation of the automatic restart/reset function.

b. Discussion. The function of the automatic reset circuit is to return a facility to service shortly after it has shutdown due to an alarm condition. When an alarm condition occurs, a short delay takes place before the facility shutdown. This time

delay is called the shutdown delay. The equipment will remain off the air until a longer delay, called the automatic reset delay, occurs. After the automatic reset delay, the facility will attempt to return itself to service. The facility will continue to operate if the alarm condition has cleared. If, however, the alarm condition persists, the equipment will again shut down. After a longer delay, the automatic reset will again attempt to return the equipment to service. If this attempt also fails, a much-longer automatic reset delay will occur. The automatic reset will again attempt to return the facility to service. If this attempt is unsuccessful, a fourth attempt will be made after an even longer automatic reset delay. If this attempt also fails, the equipment will remain off the air until manually reset.

c. Test Equipment Required. This procedure requires a device suitable for measuring elapsed time.

d. Conditions. A facility shutdown is required for this check.

e. Detailed Procedure.

(1) Place the toggle switch on top of the automatic reset pcb to the 100X position.

(2) Switch the TONE to KEY and push NORM/BYP switch in. If any lamps are lit on the automatic reset pcb, push the CLEAR AUTO RESET button to extinguish them.

(3) Simulate a fault by switching the TONE switch to CONT. Verify that the equipment attempts to reset 4 times in less than 25 minutes.

(4) Return the TONE switch to KEY to clear the alarm.

(5) Place the toggle switch on top of the automatic reset pcb to the 1X position.

(6) Push the CLEAR AUTO RESET switch and observe that LED's extinguish.

150.-159. RESERVED.

### Section 2. OTHER MAINTENANCE TASKS PROCEDURES

#### \* 160. POLESTAR MODEL PA-35D LF/MF ANTENNA.

a. Object. This procedure provides a method to inspect and clean the Polestar Model PA-35D LF/MF antenna.

b. Discussion. Periodic inspection, cleaning, and lubricating of the antenna mast will reduce deterioration of the antenna system and possible outages due to rust and corrosion.

c. Test Equipment Required.

(1) Cleaning solvent, NSN 6850-00-419-5004

(2) Conductive grease, NSN 9150-01-321-4246

(3) Primer, NSN 8040-00-845-4394

(4) Silicone sealant, NSN 8040-00-843-0802

d. Conditions. The equipment is removed from service for the duration of this task.

e. Detailed Procedure.

(1) Remove the top clamp assembly and remove the outer clamp half of the pivot/clamp assembly.

(2) Lower the antenna with the winch.

(3) Remove the radial top hat, and sit it aside for later reinstallation.

(4) Remove the two bolts holding the two mast halves together and retain.

(5) Disassemble the joint.

(6) Spray the conducting surfaces with penetrating oil and let set for 20 minutes.

(7) Clean the surfaces by wiping with the cleaning solvent.

(8) Coat the conductive surfaces of both the upper and lower mast sections with conductive grease.

(9) Reassemble the joint by inserting the upper mast section into the low mast section, and secure using 5/16-inch by 4 1/2-inch bolts.

(10) Using solvent, clean the areas around the bolt heads, the nuts, and the top of the bottom tube.

(11) Coat the areas with primer following instructions on the primer can.

(12) Let the primer dry for 2 hours. Apply a bead of silicone sealant around the upper mast/lower mast interface. Bed the seal ring in this material, and tighten the clamp. Then, with silicone sealant, seal the areas around the head and nut ends of the bolts.

(13) Reinstall the top hat. Raise the antenna and secure it, using the clamps removed in the lowering process.

(14) Return the facility to operation.

161.-170. RESERVED.

### Section 3. SPECIAL MAINTENANCE PROCEDURES

#### 171. MEASUREMENT OF ANTENNA RESISTANCE.

a. Object. This procedure provides a method to determine the antenna resistance.

b. Discussion. The NDB antenna resistance can be determined by utilizing an NDB antenna resistance meter. The meter was designed to read antenna circuit resistance directly when 1 ampere current is in the antenna circuit. Since this instrument cannot differentiate between resistance and reactance, the antenna systems must be at resonance (reactance = 0 ohms).

c. Test Equipment Required. NDB antenna resistance meter.

d. Conditions. The facility must be removed from service and appropriate NOTAMS issued.

e. Detailed Procedure. Three separate resistance measurement procedures are listed below. The first measures the resistance of the antenna with an antenna current of 1 ampere. The second is an alternate for measurement of resistance for currents other than 1 ampere. The third is for a resistance under 3 ohms. The test leads which are used to connect the resistance meter to the antenna tuning unit (ATU) should meet

the requirements in paragraph e(4).

(1) Antenna Current of 1 Ampere.

(a) If the NDB is a type FA-9589, do the following and then proceed to step (g). Otherwise, proceed to step (b).

1 Set the monitor to BYPASS and the MODE switch (S2) on the NDB operating panel to CARRIER ONLY. Ensure that the antenna current as observed on the maintenance monitor does not exceed 1 ampere.

CAUTION: Antenna current in excess of 1 ampere may cause permanent damage to the rf ammeter of the antenna resistance meter.

2 The FA-9589/1 ATU has test jacks corresponding to those on the antenna resistance meter. Connect the antenna resistance meter to the ATU and ensure that the OHMS FULL SCALE selector is in the OFF position.

3 Set the ANT/METER switch on the ATU to METER.

4 Set the OHMS FULL SCALE selector on the antenna resistance meter to 300 ohms.

\* (b) Adjust the transmitter output to reduce the antenna current of the NDB to zero or some low value much less than 1 ampere.

(c) Shut the NDB off and break the antenna \* circuit at the transmitter side of the loading coil. In many NDB's, this is the lead between the loading coils and the autotransformer barrier strip or the location of the \* antenna current meter. For some types of NDB equipment, the transmitter side of the loading coil may be internal to the transmitter.

(d) Connect the NDB antenna resistance meter as follows:

1 GND terminal to ground in the antenna tuning unit (ATU).

2 TX terminal to the transmitter output terminal disconnected in step (c).

3 ANT terminal to the transmitter side of the loading coil disconnected in step (c).

(e) Set the OHMS FULL SCALE selector to 300 ohms.

**CAUTION:** Ensure that the readings of the rf ammeters in the antenna resistance meter do not exceed full scale. Be sure that the antenna current has been turned down well below 1 ampere before turning the transmitter on. Exceeding full scale indications on either rf ammeter causes permanent damage to the meters.

(f) Turn the transmitter on.

(g) While observing the ANTENNA IMPEDANCE meter and the ANTENNA CURRENT meter, adjust the transmitter output for an antenna current of 1 ampere. The antenna resistance should be between 3 and 30 ohms for a normally operating antenna system at resonance. If the ANTENNA IMPEDANCE meter indicates over 30 ohms, the antenna system is probably not resonant, or an error was made in connecting the antenna resistance meter.

(h) If an antenna current of 1 ampere cannot be obtained, proceed to the alternate procedure for resistance measurement (step e(2)).

(i) If the ANTENNA IMPEDANCE meter indicates a resistance less than 30 ohms, change the OHMS FULL SCALE switch to the 30-ohm position. It may be necessary to adjust the transmitter output to maintain 1 ampere when switching resistance scales. \*

\* (j) If the ANTENNA IMPEDANCE meter indicates a resistance less than 15 ohms, change the OHMS FULL SCALE switch to the 15 ohm position. Adjust transmitter current to 1 ampere if necessary.

(k) If the ANTENNA IMPEDANCE meter indicates a resistance less than 7.5 ohms, switch the OHMS FULL SCALE switch to the 7.5-ohm position. Adjust the transmitter current to 1 ampere if necessary. If the resistance reading is less than 3 ohms, proceed to step e(3) to obtain a resistance reading.

(l) Once the proper scale is chosen, record the antenna resistance reading, taking into account the OHMS FULL SCALE switch position. Perform step e(1)(m) or e(1)(n) to ensure that the antenna system is at resonance.

(m) If the loading coil inductance is continuously adjustable (e.g. Nautel ATU), adjust the loading coil inductance up and down slightly while observing the ANTENNA IMPEDANCE meter. If the antenna system is resonant, the ANTENNA IMPEDANCE meter reading should increase as the inductance is adjusted up and down. The correct antenna resistance is read as the minimum reading of the ANTENNA IMPEDANCE meter with constant antenna current applied.

(n) If the loading coil is tapped rather than continuously adjustable, perform the following steps:

1 Reduce the transmitter output to zero or a low value of antenna current (less than 1 ampere).

2 Turn the transmitter off.

3 Change the loading coil tap toward the antenna, to the next tap above the original tap on the loading coil.

4 Repeat steps (e) through (l).

5 Record the antenna resistance reading and tap setting of the loading coil.

6 Repeat steps 1 through 4 above, except change the tap on the loading coil to the next tap below the original tap.

7 Record the antenna resistance reading and tap setting of the loading coil.

8 If the lowest ANTENNA IMPEDANCE meter reading was obtained with the loading coil on the original tap, the antenna system was already resonant. The lowest antenna impedance read is the correct value for antenna resistance. \*

\* 9 If the lowest antenna impedance reading did not occur on the original tap, the antenna system was not resonant. Repeat steps 1 through 4 above and continue changing the tap in the same direction as the lowest antenna impedance reading until resonance is achieved. (The loading coil tap should be left on the tap that reads the lowest antenna impedance reading for a constant antenna current.)

(o) Once resonant antenna operation has been achieved, record the antenna resistance value.

(p) Set the OHMS FULL SCALE switch to OFF.

(q) If the NDB is not a type FA-9589, turn off the transmitter, disconnect the antenna resistance meter, and reconnect the loading coils.

(r) On the FA-9589/1 ATU, set the ANT/METER switch to ANT and disconnect the antenna resistance meter.

(s) Restore normal NDB operation.

(2) Antenna Current Other Than 1 Ampere. Use this procedure when the antenna current cannot be adjusted to 1 ampere. (See step e(1)(h).)

(a) While observing the ANTENNA IMPEDANCE meter and the ANTENNA CURRENT meter, adjust the transmitter output current to a convenient value. A value such as 0.5 ampere is suggested in order to simplify calculation of antenna resistance. Record this value. Be sure the ANTENNA IMPEDANCE meter does not exceed full scale indication. The antenna resistance should be between 3 and 30 ohms for a normally operating antenna system at resonance.

(b) If the ANTENNA IMPEDANCE meter indicates a resistance less than 30 ohms, change the OHMS FULL SCALE switch to the 30-ohm position. It may be necessary to adjust the transmitter current to maintain the chosen value of current when switching resistance scales.

(c) If the ANTENNA IMPEDANCE meter indicates a resistance less than 15 ohms, change the OHMS FULL SCALE switch to the 15-ohm position. Adjust transmitter current to the chosen value of current if necessary.

(d) If the ANTENNA IMPEDANCE meter indicates a resistance less than 7.5 ohms, change the OHMS FULL SCALE switch to the 7.5-ohm position. \*

\* Adjust the transmitter current to the chosen value of current if necessary. If the resistance reading is less than 3 ohms, proceed to step e(3) to obtain a resistance reading.

(e) Once the proper scale is chosen, note the reading on the ANTENNA IMPEDANCE meter and on the ANTENNA CURRENT meter, taking into account the OHMS FULL SCALE switch position. To insure that the antenna system is at resonance, perform steps in paragraph e(1)(m) or e(1)(n).

(f) Once resonant antenna operation has been verified, record the readings on the ANTENNA IMPEDANCE and ANTENNA CURRENT meters.

(g) Use the values recorded in the previous step and the following formula to calculate the true antenna resistance.

$$R_2 = R_1/I_1$$

$R_1$  = Uncorrected resistance reading (read in step (f) above)

$I_1$  = Antenna current (read in step (f) above)

$R_2$  = Corrected resistance

(h) Set the OHMS FULL SCALE selector switch to the OFF position.

(i) If the NDB is not a type FA-9589, turn off the transmitter, disconnect the antenna resistance meter, and reconnect the loading coils.

(j) On the FA-9589/1 ATU, set the ANT/METER switch to ANT and disconnect the antenna resistance meter.

(k) Restore normal NDB operation.

(3) Resistance of Less Than 3 Ohms. Use this procedure to measure antenna resistances under 3 ohms. (See step e(1)(k)). An antenna resistance under 3 ohms indicates that the antenna resistance meter is connected incorrectly, or a short exists between the antenna (ANT) terminal of the meter and ground, or that the NDB has an extremely good ground system (a very rare situation). If the antenna resistance is actually under 3 ohms, the antenna resistance meter may be used as a voltmeter to read the voltage on the antenna. An external rf ammeter can then be used to read antenna current, allowing the resistance to be calculated. With a resistance of 3 ohms, the antenna current required to achieve an accurate \*

\* reading of antenna voltage is usually much higher than 15 amperes (the current limit of the antenna resistance meter), thus requiring the use of an external ammeter.

(a) If the NDB is a type FA-9589, do the following and then proceed to step (d). If not, proceed to step (b).

1 Set the monitor to BYPASS and the MODE switch (S2) on the NDB operating panel to CARRIER ONLY.

2 Set the ANT/METER switch on the ATU to ANT.

(b) Adjust the NDB transmitter output to reduce the antenna current to zero or a value much less than 1 ampere.

(c) Shut down the NDB transmitter.

(d) If the NDB does not have an rf ammeter to measure antenna current, connect an external rf ammeter capable of measuring at least the normal operating current of the NDB between the transmitter side of the loading coil and the transmitter. On the FA-9589/1 ATU, this is between the ANT and TX jacks on the front panel.

NOTE: For some types of NDB equipment, the transmitter side of the loading coil may be internal to the transmitter.

(e) Using a suitable test lead, connect the transmit (TX) jack of the antenna resistance meter to the transmitter side of the loading coil (TX jack on the FA-9589/1 ATU), i.e., the transmitter side of the external ammeter. On the FA-9589/1, a single banana plug adapter will facilitate connections to the TX jack.

(f) Using a suitable test lead, connect the ground (GND) jack (black) of the antenna resistance meter to ground in the ATU (to GND jack on the FA-9589/1 ATU).

NOTE: The antenna (ANT) jack on the antenna resistance meter should not be connected for this procedure.

(g) Set the OHMS FULL SCALE switch on the antenna resistance meter to 300 ohms.

(h) On the FA-9589/1 ATU, set the ANT/METER switch to METER.

(i) Turn the NDB transmitter on. If the NDB is a type FA-9589, it should already be on.

(j) Increase the transmitter power for several amperes of antenna current as indicated by the facility rf ammeter or the external rf ammeter. Use a current setting (i.e., 2.0 amperes, 2.2 amperes) that will simplify resistance calculation. Do not allow the resistance reading to exceed full scale. Note that the ANTENNA CURRENT meter on the antenna resistance meter does not deflect.

(k) If the ANTENNA IMPEDANCE meter indicates a resistance less than 30 ohms, change the OHMS FULL SCALE switch to the 30-ohm position.

(l) If the ANTENNA IMPEDANCE meter indicates a resistance less than 15 ohms, change the OHMS FULL SCALE switch to the 15-ohm position.

(m) If the ANTENNA IMPEDANCE meter indicates a resistance less than 7.5 ohms, change the OHMS FULL SCALE switch to the 7.5-ohm position.

(n) Once the proper scale is chosen, note the readings on the ANTENNA IMPEDANCE and the rf ammeter, taking into account the OHMS FULL SCALE switch position. Perform steps in paragraph e(1)(m) or e(1)(n) to insure that the antenna system is at resonance.

(o) Once resonant antenna operation has been verified, record the readings on the ANTENNA IMPEDANCE and the antenna current as indicated on the facility rf ammeter or the external rf ammeter.

(p) Use the values recorded in the previous step and the following formula to calculate the true antenna resistance.

$$R_c = R_u / I_a$$

$R_u$  = Uncorrected resistance reading (read in step (o) above)

$I_a$  = Antenna current (read in step (o) above)

$R_c$  = Corrected resistance

(q) Set the OHMS FULL SCALE selector switch to the OFF position.

(r) If the NDB is not a type FA-9589, turn off the transmitter, disconnect the external rf ammeter (if necessary), disconnect the antenna resistance meter, and reconnect the loading coils.

(s) On the FA-9589/1 ATU, set the ANT/METER switch to ANT and disconnect the antenna resistance meter.

(t) Restore normal NDB operation.

(4) Error Due to Test Lead Inductance. The inductance of the test leads that are used to connect the NDB antenna resistance meter to the NDB antenna will introduce some error into the resistance measurement. Test lead length should be kept as short as possible, especially for NDB's operating on higher frequencies. Test leads of 2 feet (0.61 meter) or less should introduce negligible error into the measurement. Heavy gauge wire (10 AWG or larger) should be used to keep test lead inductance low.

• 172. VERIFICATION OF ANTENNA TUNING UNIT VSWR.

a. Object. This procedure provides a method to verify the vswr of the antenna tuning unit.

b. Discussion. After a sufficient number of lightning pulses have been discharged through the lightning pro-

tection device, there is a gradual lowering of the breakdown voltage and insulation resistance. Replacement is indicated by an increase in the vswr.

c. Test Equipment Required. None.

d. Conditions. The facility is operating normally.

e. Detailed Procedure.

(1) Log on; the main menu will be displayed.

(2) Select the A function; the facility parameters will be displayed.

(3) Verify that there has been no significant degradation in the vswr.

(4) Press RETURN for the main menu and log off.

173.-189. RESERVED.

ATTACHMENT 4  
Non-Federal Facility Maintenance Logs and Verification

1. Introduction. The need for proper and thorough documentation of equipment performance and maintenance activities at nonfederal facilities cannot be over emphasized. Past experience has shown that improper documentation or omissions obscure technical problems and precipitate legal difficulties. The FAA Form 6030-1, facility maintenance log, should be used to provide a complete technical performance history and maintenance activity record. In addition, the facility maintenance log serves as a legal record in case of aircraft accident investigation and litigation.

2. Log Format. Fully legible entries should be made on the white pages in the facility maintenance log with a ball-point pen using black or other reproducible ink. A carbon copy should be made using the yellow pages in the log. Information recorded in the maintenance log should correlate with related data on other forms, records, and reports, including the Technical Performance Record. Appropriate instruction books, maintenance technical handbooks, and the "Operations and Maintenance Manual" may be cited, where applicable, to support log entries.

a. Page lay out. (See examples)

(1) "Station" Block: Enter the actual name of the facility location (e.g., Memphis, TN,).

(2) "Subject" Block: Enter the facility identifier and type contraction (e.g., MEM NDB).

(3) "Month and Year" block: Enter the month and year.

(4) "Date" Column: Enter the day of the month before the first and last entry of each day. Enter the month only if different from the month shown at the top of the page.

(5) "Time" (24 Hours) Column: All entries should have a 24-hour time based on either Greenwich Mean Time (GMT) or local time. If GMT is used, insert the letter "Z" after the 24-hour time (e.g., 2230Z).

(6) "Code" Column: The FAA uses this column to code all interruptions. For simplicity, a code "Eighty (80)" for all unscheduled interruptions and a code "Sixty (60)" for all scheduled interruptions may be used.

(7) "Remarks" Column: The log entry containing a brief description of action taken should be inserted in the remarks column. Use as many lines as necessary. Within reasonable limits, entries should be concise, avoiding elaboration of opinion or troubleshooting details. Use abbreviations, references to substantive records and brief citations of directives where necessary to correlate, substantiate, or support the entry.

(8) "Initials" Column: Each entry should be initialed by the person making the entry. The initials of any observer should be below those of the writer.

b. Continuity. Since the log can be considered a legal document, steps must be taken to ensure that there are no gaps in the log's continuity. The procedures below may seem redundant or unnecessary, but are designed to provide continuous history.

(1) Erasures: There should be no erasures. Errors should be voided by a single line strikeout with the correction neatly inserted. The initials of the person making the correction should appear next to the lined-out portion. If the correction is related to a facility interruption, it is recommended that an explanation of the change be contained in a separate log entry.

(2) Page Numbering: All serialized log pages should be placed in proper order or documented by a separate log entry. When initiating a new book, the serial number of the last page of the old log book should be referenced in the first entry of the new log book. Consequently, the serial number of the first page of the new log book should be referenced in the last entry of the old log book.

(3) Month or Time Interval: The log shall be maintained on a monthly basis. If all periodic maintenance checks outlined in the Operations and Maintenance Manual for a facility exceed one month, the log may be maintained on a time interval based on the most frequent periodic maintenance check. The first and last entry of the month or time period should be noted in the log.

(a) First Entry: The first entry of each month or time interval should be identified by beginning the entry with the statement "First Entry."

(b) Closing Entry: A closing statement which identifies the final entry for the month or time interval should be entered immediately following the last entry for that month or time interval. This final entry may be made on the first visit to the facility in the next month or time interval.

(4) Delayed Entries: Delayed entries should be made only when necessary to complete the record for a facility interruption or to document maintenance activities at the remote monitor station. The date and time blocks for these entries should contain the actual date(s) and time(s) of the interruption or maintenance activity. In addition, these entries shall be identified by beginning the entry with the phrase "Delayed Entry."

(5) Arrival and Departure Entries: The simple statements "Arrived Site" or "Departing Site" should be used. The departing site statement may also include information concerning equipment status.

3. Activities Requiring Log Entries: Appropriate entries in the facility maintenance log should document any action or event affecting the status, operation, or

performance of the facility. Entries include, but are not limited to:

- a. Participation in flight inspection, FAA ground inspection, routine or periodic maintenance inspections, and aircraft accident investigations.
- b. Equipment replacement, modernization, modification, and/or repair.
- c. Routine or corrective maintenance and major tune ups of equipment at the facility and/or the remote monitor station. Entries shall include identification of failed equipment units or components either by reference designation, part number, or other appropriate terminology.
- d. Transfer, shutdown, unscheduled interruption, and restoration of service or equipment.
- e. Delivery or shipment of supplies, parts, instruments, and equipment.
- f. Any significant irregularities such as incidents of pilferage or vandalism and/or suspected violation of security.
- g. Adverse weather, commercial power failures, or access road conditions if deemed to have an impact or potential impact on facility status.
- h. Verification or removal of verification (see Section 4).
- i. Arrivals and departures, including time and, date.
- j. Any condition resulting in an impact to the use of the Standard Instrument Approach Procedure.

4. Verification. It is highly recommended that a verification statement be used in the facility maintenance log. Whenever a technician verifies navigational aid equipment or systems, he/she is attesting that the critical or key performance parameters are within the tolerances or limits prescribed in the appropriate equipment instruction book and the Operations and Maintenance Manual, such that a reliable and safe radiated signal is being provided to the aviation public. Since the aviation public must know when a navigational aid is not available, the remote status monitor or indication should be considered part of the navigational aid system. The Operation and Maintenance Manual and the appropriate instruction book contain the performance parameters applicable to the equipment. If there are any questions concerning a parameter, contact the FAA office responsible for inspecting your facility.

FACILITY MAINTENANCE LOG			STATION Dyersburg, TN	MONTH AND YEAR Mar/Apr/May, 1992
DATE	TIME BY	CODE	REMARKS	INITIALS
			March 1992	
7	2045		Arrived Site. Was notified by Dyersburg TN Airport Manager (J.G.) re 2030 of Aircraft Accident involving Bonanza N41311 that occurred at 2010 this date and that we must evaluate DNT NDB.	HW
	2055		Began Evaluation.	HW
	2137		The operation of the DNT NDB was checked beginning 2055 this date and found to be normal. Meter readings and verification performance parameters were within established standards and tolerances and verified. I certify that this is a true and complete statement of my findings with regard to the DNT NDB for the date and time indicated.	HW
			Technician <u>Wilson Williams</u> Signature <u>Electronic Technician</u> Title	
			Observer <u>W. A. Genius</u> Signature <u>Dyersburg Airport Manager</u> Title	
	2210		SI NDB Verified	
07	2215		Departed Site. Last entry this page. Yellow page removed.	HW/WW
DATE	SIGNATURE OF SECTION SUPERVISOR/ENGINEER	DATE	SIGNATURE OF MAINTENANCE TECHNICIAN	
		4/7/92	Wilson Williams	

FACILITY MAINTENANCE LOG		STATION	DATE	TIME	REMARKS	INITIALS
		MEMPHIS, TN			MEM AWOS	Jan - June 1993
DATE	TIME	REMARKS	INITIALS			
FEBRUARY 1993						
4	1800	(FIRST ENTRY) ARRIVED SITE				WJ
4	1930	60 AWOS OTS. MXL APIS (WJ) Remote Monitor Site (PS)				WJ
4	1915	COMPLETION SCHEDULED SEMI-ANNUAL MAINT. FOR HARDWARE INSPECTION BOOK, PAR. 51, 52, 53 & 64.				WJ
4	1916	AWOS VERIFIED				WJ
4	1930	AWOS RTS.				WJ
4	1940	REQUESTED HERBICIDE TREATMENT ON FACILITY LOT FROM A&P				WJ
4	1955	DEPARTED SITE				
MARCH 1993						
5	1915	ARRIVED SITE. WAS NOTIFIED AT HOME BY MXL APIS (WJ) ON 3/15 AT 1600 THAT AWOS WAS OTS SINCE 2445 AT 1615				WJ
4	1615	80 (DELAYED ENTRY 3/5 1920) AWOS OTS				WJ
5	2045	FOUND BAD PA. TRANSMITTER Q101, IN TRANSMITTER. REPAIRED SAME. RETURNED TRANSMITTER				WJ
5	2046	AWOS <del>CERTIFIED</del> VERIFIED				WJ
5	2050	AWOS RTS. MXL APIS (WJ) Remote Monitor Site (PS)				WJ
5	2115	DEPARTED SITE				WJ
7/5	1920	LAST ENTRY THIS PERIOD yellow Pages removed				WJ
7/5/93						
DATE		SIGNATURE OF SECTION SUPERVISOR		DATE		SIGNATURE OF MAINTENANCE TECHNICIAN
				7/5/93		Wilson Williams

FACILITY MAINTENANCE LOG		STATION	DATE	TIME	DESCRIPTION	INITIALS
		SMELLVILLE, KY				
		SMI SDF				
						NOV 1984
DATE	TIME	DESCRIPTION	INITIALS			
6	0950	<del>ARRIVED SITE</del> FIRST ENTRY - ARRIVED SITE	JD			
6	1100	COMPLETED MONTHLY MAINT FOR 675045 P-4100C	JD			
6	1110	DEPARTING SITE	JD			
23	1630	ARRIVED SITE	JD			
23	1640	FOUND SDF SWITCHDOWN PLACED EQUIPMENT IN LOCAL MONITOR IN WINDK ALARM	JD			
23	1730	FOUND 1A91 DEFECTIVE IN MONITOR				
		REPLACED 1A91 SDF RESTORED NORMAL	JD			
23	1735	SDF VERIFIED	JD			
23	1745	DEPARTING SITE	JD			
23	1800	ARRIVED SITE	JD			
23	1820	N163 ARRIVED FOR MONITOR FLIGHT CHECK	JD			
23	1830	FLIGHT CHECK COMPLETED BEGAN				
		FIRST FLIGHT CHECK GROUND CHECK	JD			
23	1845	COMPLETED GROUND CHECK	JD			
23	1920	SDF VERIFIED	JD			
30	1630	DEPARTING SITE	JD			
12/16	1530	LAST ENTRY THIS MONTH - YELLOW PAGES REMOVED	JD			
/						
NAME		SIGNATURE OF LOCAL MAINTENANCE	DATE	SIGNATURE OF SUPERVISOR		
			12/16/84	John Doe		

FACILITY MAINTENANCE LOG		STATION Dyersburg, TN	MONTH AND YEAR Jan/Feb/Mar, 1992
DATE	TIME (24 HOURS)	REMARKS	INITIALS
		February, 1992	
4	1900	(FIRST ENTRY) ARRIVED SITE	WW
	/1940/	Coordinated automated shutdown test with MCL APSS (W.S.) and remote monitor site (P.S.)	WW
	1845	Completed Scheduled Quarterly Maintenance per FAA Order 6740.2B Par 12 (a) through (F)	WW
	1855	NDB Verified	WW
	1856	Departed Site	WW
		March 1992	
5	1915	Arrived Site	WW
	/2000	NDB OK. Coordinated 1 hour facility shutdown with MCL APSS (W.S.) and remote monitor site (J.D.)	WW
	2055	Completed verification of antenna ground resistance measurements	WW
	2056	NDB verified	WW
	2100/	NDB OK.	WW
	2115	Departed Site	WW
7/4	2045	Last entry this quarter. Yellow pages removed.	WW
DATE	SIGNATURE OF DIRECT SUPERVISOR	DATE	SIGNATURE OF MAINTENANCE TECHNICIAN
		7/4/92	Wilson Williams

ATTACHMENT 5  
TRDR Forms

Insert the Technical Reference Data Record (TRDR) forms.



Justice General Contractors, Inc.

PO Box 339 • Hwy 182/59 • Fair Play, SC 29643  
803 • 972 • 3355

November 22, 1994

Ms. Joanna Quinn  
HDR Engineering, Inc.  
128 S. Tryon St.  
Suite 1400  
Charlotte, NC 28202-5001

Re: Oconee Site Convenience Centers  
Package "B" - Mountain Rest Site  
Change Order #4

Dear Joanna:

Please find the attached sketch SK-1 which shows average depths, rock quarry tickets, and photos of the area undercut. We request a change order for adding surge stone to the lower parking drive access areas required:

- 1. McKee Invoice #6983 for Front End Loader  
time to spread stone.....\$1987.50
- 2. McKee Invoice #6981 for hauling surge stone  
(approximately 775 tons).....\$3657.50
- Subtotal.....\$5645.00
- 5 % GC fee..... 282.25
- 1.5 % Bond..... 89.00
- Total Add.....\$6016.00

As discussed in our November 21st. job site meeting, we regret that we failed to call the owner out to the job site for a third assessment of the situation. We did call the owner out to approve the first 12" of surge stone. On the second trip on October 28th., we advised that another (10) to (15) truckloads were needed for deeper areas. My job superintendent, Allen Hart, failed to relay to me the importance of a look and blessing for more stone by the owner if the situation called for a third trip. As you can see on the sketch, 3' to 4' average of stone was required in areas to stabilize. Ground water was appearing in many areas.

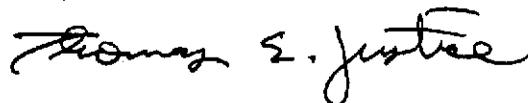
I think everyone was in agreement at our meeting that (775) tons of surge stone was required to do the job. Our error was in not notifying the owner for a third look. Rain was in our face and we had to move quickly. Our only concern was to give the owner a serviceable road area that has heavy truck traffic. Nothing short of what we did would have worked.

Page 2  
Mountain Rest

We have come to an agreement with Ms. Dillard that we will be paid \$4,000.00 by change order for the above work for now. We will go before County Council on December 6th., and ask them to approve an additional \$2,016.00 which represents the disputed amount that should have been approved by the owner prior to implementation.

Please forward a written change order for \$4,000.00 plus (7) days time extension, as soon as possible. The backup information of our November 18th. letter should be used with this letter.

Sincerely,

A handwritten signature in cursive script that reads "Thomas E. Justice". The signature is written in dark ink and is positioned to the right of the typed name.

Thomas E. Justice

cc: Ms. Maryanne Dillard

File



Justice General Contractors, Inc.  
PO Box 339 • Hwy 182/59 • Fair Play, SC 29643  
803 • 972 • 3355

November 18, 1994

Ms. Joanna Quinn  
HDR Engineering, Inc.  
128 S. Tryon St.  
Suite 1400  
Charlotte, NC 28202-5001

Re: Oconee Site Convenience Centers  
Package "B" - Mountain Rest Site  
Change Order #4

Dear Joanna:

As per our September 22, 1994 letter and authorization from Joe Readling, we request a change order for the following work:

- 1. 1200 SY of GS150 TerraTex Stabilization Fabric @ \$0.73/SY.....\$ 876.00
  - 2. Extra Crusher Run Stone added to lower graveled areas:
    - 5710 SF @ 2" Thick.....36CY.
    - 1500 SF @ 5" Thick.....23CY.

59CY @ \$9.50/CY.....\$ 560.50
  - 3. Extra Crusher Run Stone added to Lower area slabs for stabilization (see sketch):
    - 1860 SF @ 14" Thick.....81CY.
    - 720 SF @ 6" Thick.....13CY.

94CY @ \$9.50/CY.....\$ 893.00
- Total Add.....\$2329.00

The above work was necessary for giving the large 6" slabs support on wet soil. The added stone to the graveled parking area was recommended for added stability and was placed on the fabric with the original 6" of stone. The surge stone that was added is in a separate change order letter.

Please add eight (8) days time extension for the above extra work. Let me know if any questions need answering.

Sincerely,

Thomas E. Justice

cc: Maryanne Dillard - Oconee County  
cc: Rex Brown - F & R  
cc: Allen Hart - JGC

11-10-74

Int. Rest Site

N 1558°00'E  
613.66'

PROPOSED CHAIN LINK  
FENCE W/ BARBED WIRE

LIMIT OF ASPHALT  
PAVEMENT, STA. 1+95.15

A = 35 x 18  
V = 93  
4' Surge

A = 1/2 (70 x 25)  
V = 65 CY  
2' Surge

A = 35 x 15  
V = 58 CY  
3' Surge

A = 115 x 18  
V = 230 CY  
48%  
45.82'  
3' Surge

PROPOSED CONCRETE  
SEE CONC SLAB S/

Surge 2'  
A = 70 x 23  
V = 119 CY  
51.71'  
53.82'

10-12" OF CRUSHER  
RUN  
A = 30 x 50

N 1558°00'E  
613.66'  
A = 30 x 20  
V = 22 CY

STA 1+13.60  
(LINE B)

PT STA. 1+34.78  
1+39.66

45.70'

23.2'

STA. 1+39.78  
1+37.30  
(LINE A)

PROPOSED CONCRETE  
SLAB SEE CONC SLAB  
SEC SHT C-10

ASPHALT PAVEMENT  
SEE SEC. SHT. C-10

N 4° 10' E

10.54'

23'

10'

\* 18" Stone

\* 18" Stone

\* 10" Stone

30.75'

\* 18" Stone

12.47'

10.54'

10.54'

23'

10'

10.54'

10.54'

10.54'



Justice General Contractors, Inc.

PO Box 339 • Hwy 182/59 • Fair Play, SC 29643  
803 • 972 • 3355

September 22, 1994

Mr. Joe Readling, PE  
HDR Engineering, Inc.  
128 S. Tryon St.  
Suite 1400  
Charlotte, NC 28202-5001

Re: Oconee Site Convenience Centers  
Package "B"

Dear Joe:

As we discussed on September 19th., we quote the following prices for corrective work as recommended in the HDR Engineering letter of September 2nd., and the Froehling & Robertson, Inc. letter of September 16th.

- 1. Approximately 1,200 SY of GS150 Terra Tex Stabilization Fabric @ \$.73/SY.....\$ 876.00.
- 2. Approximately 115 CY of extra crusher run stone for undercutting wet soil under lower slabs and adding 2" of extra stone (36)CY to lower graveled area @ \$9.50/CY.....\$1,435.00.

Please note that you have recommended that F&R verify required undercutting and stone quantities, which may vary as to needed work. We will be paid on actual quantities used. Also, the owner is to provide the stone free of charge at the quarry.

We request (8) days time extension for this extra work. We are proceeding with this work as directed by you. We will settle up with a Change Order when actual quantities used are verified.

Thank you for your help in keeping this project moving.

Sincerely,

Thomas E. Justice

cc: Johanna Quinn - HDR  
Allen Hart - JGC



# INVOICE

6981

**McKEE, INC.**  
P.O. Box 156  
SENECA, SOUTH CAROLINA 29679-0156

**(803) 882-8081 882-8083**

TO Justice General Contractors, Inc.  
P. O. Box 339  
Fairplay, S.C. 29643

DATE	November 7, 1994
CUSTOMER ORDER NO.	
SALESPERSON	Mte Rest Site
VIA	Oconee Manned Convenience Center

TERMS: Due upon receipt of invoice. If not paid by the 10th of the month, a finance charge of 1 1/2% per month will be charged. Company is not responsible for damage on private property.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	hauling surge stone		
10/27	tandum trucks 12 1/2 hrs	55.00	687.50
10/28	tandum trucks 27 hrs	55.00	1,485.00
10/29	tandum trucks 13 hrs	55.00	715.00
10/31	tandum trucks 14 hrs	55.00	770.00
			\$3,657.50

ORIGINAL

*Thank You!*

40% Pre-Consumer Content  
10% Post-Consumer Content

⊗ 587 CY of Surge Stone  
 @ 16.50 / CY = \$ 9,685.50

Included in the Base Bid and as detailed in the Contract Documents and on the Plans.

1. Miscellaneous Cut and Fill (On-Site)	\$ <u>6.00</u> /cy (in-place)
2. Hauling and Placing Borrow from Off-Site Source	\$ <u>6.00</u> /cy
3. Excavating, Hauling, and Disposing of Excess Cut to an Off-Site Location	\$ <u>16.00</u> /cy
4. Select Backfill	\$ <u>8.00</u> /cy (in-place)
5. Aggregate Base Course (Transport and Install)	\$ <u>16.50</u> /cy (in-place) ← ⊗
6. Bituminous Concrete Base Course	\$ <u>34.00</u> /ton (in-place)
7. Bituminous Concrete Surface Course	\$ <u>35.00</u> /ton (in-place)
8. Concrete Pavement	\$ <u>120.00</u> /cy (in-place)
9. Structural Concrete	
a. 4000 psi	\$ <u>200.00</u> /cy (in-place)
10. Reinforcing Steel	\$ <u>700.00</u> /ton (in-place)
11. Formwork	\$ <u>2.75</u> /sq.ft (in-place)
12. Topsoiling & Seeding	\$ <u>2,200.00</u> /acre (in-place)

E. PAVEMENT DESIGN: The Pavement design as shown on the plans is to be used as the basis of the Firm Lump Sum Base Bid Price. Based on geotechnical findings from each site reviewed during construction, the pavement design may be modified by change order. Changes to contract price will be made based on unit prices provided in Paragraph C above.

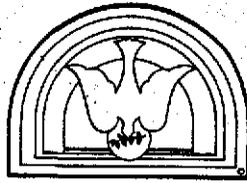
SITE INSPECTION: The Bidder further certifies that he has personally inspected the actual location of the Work, together with the local sources of supply, and that he understands the conditions under which Work is to be performed, or that if he has not so inspected the site and conditions of the Work, that he waives all right to plead any misunderstanding regarding the Work required, the Bidder's responsibilities or conditions peculiar to the same. Refer to Paragraph 1.12 Bidder's Responsibility in Section: 00100 - Information For Bidders.

G. PROPOSAL ACCEPTANCE: The Bidder hereby agrees to hold the bid price without change for a period not to exceed sixty (60) days, to furnish the required bonds within ten (10) calendar days of Notice of Award, and to sign the Contract within one (1) calendar day from and after the Owner's acceptance of this proposal and further agrees to begin and complete all work covered by the plans and specifications within the time limits set forth in Section 01000 - Coordination.

H. EMPLOYMENT DISCRIMINATION: During the performance of this Contract, the Bidder agrees to comply with all Labor Related Regulations as specified in the Contract Documents and to incorporate said provisions of each in every Subcontract or purchase order over \$10,000.

I. BID BOND: Accompanying this proposal, as a guarantee that the Bidder will execute the Contract Agreement and furnish a satisfactory bond in accordance with the terms and requirements of the specifications, is a bid bond or

OCONEE COUNTY STAFFED CONVENIENCE CENTERS - PACKAGE B



**HOSPICE OF THE FOOTHILLS, INC.**

Post Office Box 245  
Seneca, South Carolina 29679  
(803) 882-8940

November 16, 1994

Mr. Norman D. Crain  
County Supervisor for Oconee County  
208 Booker Drive  
Walhalla, SC 29691

Dear Mr. Crain:

We wish to thank you for your willingness to once again assist us in increasing Public Awareness of Hospice Care available in our community by helping us celebrate November as National Hospice Month. Enclosed is a sample proclamation.

We would appreciate an opportunity to meet with you briefly and have a photo taken for the newspaper. Please contact our office with a time that is convenient for you.

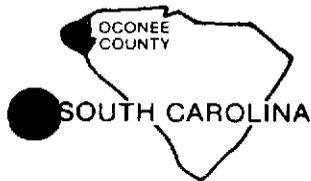
We are pleased that Hospice of the Foothills, now in its fourth year of service to the community is gaining recognition and acceptance. Your efforts in the past have helped to create that recognition,. It is our goal to serve all those who need us. Once again thanks for your support.

Sincerely,

*Tenna W. Sines*

Tenna W. Sines, R. N.  
Executive Director

TWS:bp



OCONEE CITY-COUNTY  
HEALTH AND SANITATION COMMISSION

208 BOOKER DRIVE  
WALHALLA, SOUTH CAROLINA 29691  
TELEPHONE (803) 638-4224

November 22, 1994

The Honorable Norman D. Crain  
Supervisor-Chairman, Oconee County Council  
208 Booker Drive  
Walhalla, South Carolina 29691

The Honorable County Council Members  
208 Booker Drive  
Walhalla, South Carolina 29691

Dear Mr. Crain and County Council Members:

The members of the Oconee County Solid Waste Commission respectfully requests permission to accept drinking water treatment alum sludge from the Cities' water treatment plants. This will require a modification to the action taken by the Oconee County Council prohibiting special wastes.

The South Carolina Department of Health and Environmental Control has no problem with the County accepting this type of sludge, as it will have no adverse effect upon the landfill, due to it's dryness and composition.

This request is for drinking water treatment sludge from the cities of Seneca, Walhalla and Westminster only, no industries or private facilities are included.

Also, this does not include sludge from any waste water treatment facilities.

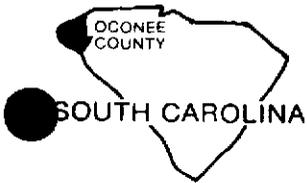
Your kind consideration in this matter would be greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Ralph Nix".

Ralph Nix  
Chairman Solid  
Waste Commission

REN/pm



OCONEE CITY-COUNTY  
HEALTH AND SANITATION COMMISSION

208 BOOKER DRIVE  
WALHALLA, SOUTH CAROLINA 29691  
TELEPHONE (803) 638-4224

November 22, 1994

The Honorable Norman D. Crain  
Supervisor-Chairman, Oconee County Council  
208 Booker Drive  
Walhalla, South Carolina 29691

The Honorable County Council Members  
208 Booker Drive  
Walhalla, South Carolina 29691

Dear Mr. Crain and County Council Members:

At the October 25, 1994 meeting of the Oconee County Solid Waste Commission, a motion was made by Mr. Abercrombie and seconded by Mr. Holcombe with all members voting in the affirmative to make a recommendation to you and the members of the Oconee County Council to rescind the \$1.50 tire fee that was initiated on January 9, 1992.

The Commission feels that rescinding the fee will encourage people to bring their used tires to the landfill and the Manned Convenience Centers instead of discarding them illegally.

The costs associated with disposal of used tires are now paid for with rebates from the State of South Carolina. This is generated from the \$2.00 impact fee levied on the purchase of new tires.

Your consideration in this matter would be greatly appreciated.

This Commission would like to thank the Chairman and Members of Oconee County Council for their outstanding support of the Solid Waste Department by preparing for the future needs of Oconee County's Citizens.

Sincerely,

Ralph E. Nix  
Chairman Solid  
Waste Commission

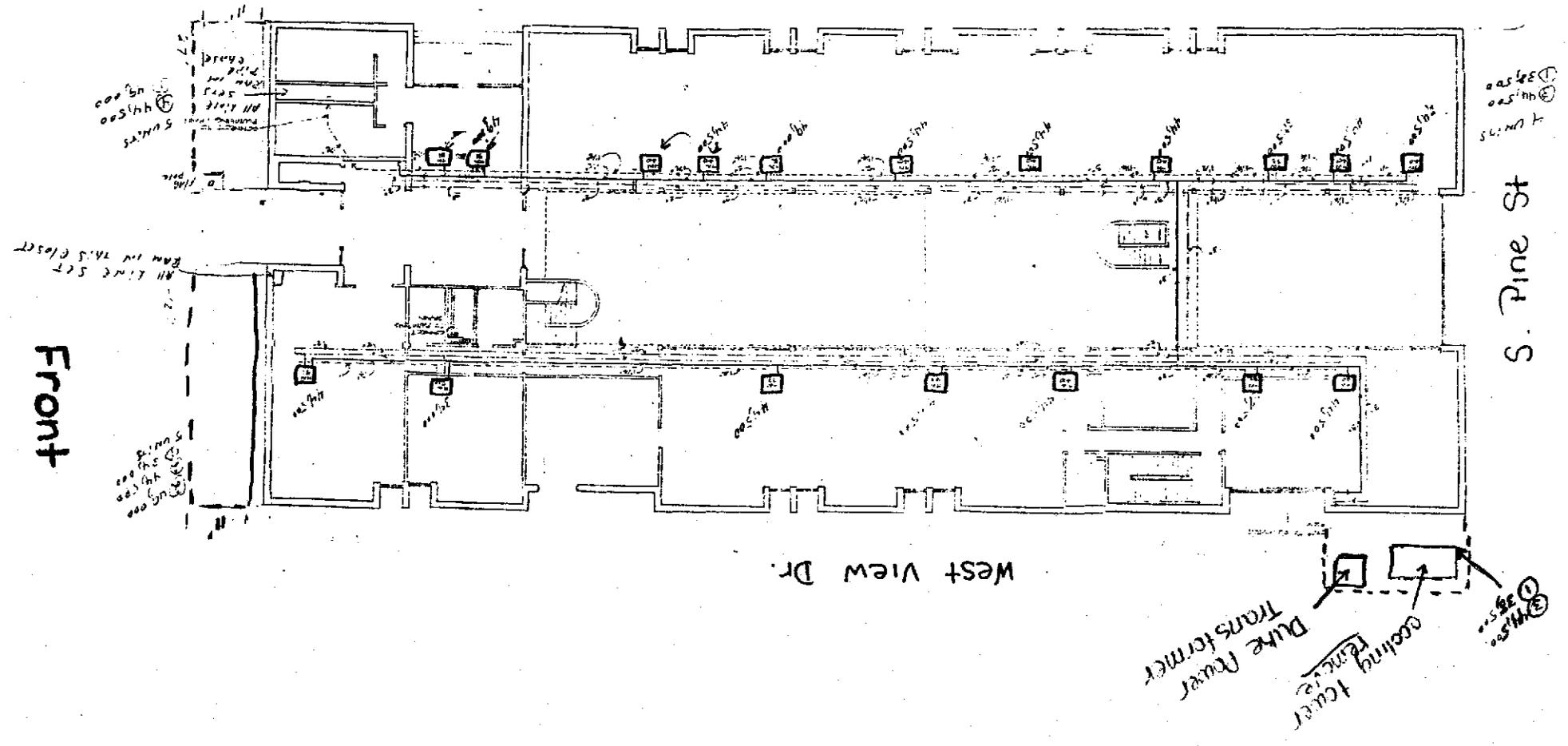
REN/pm

Broad St.

S. Pine St

West View Dr.

Front



① 385.00  
② 445.00  
③ 4 UNITS  
④ 5 UNITS

① 385.00  
② 445.00  
Cooling tower  
Duke Power  
Duke Transformer

RAM IN THIS CLOSET  
ALL LINE SET

5 UNITS  
① 445.00  
② 49.00

# Oconee County Council

Mary Frances Burrell  
District One  
Post Office Box 53  
Tamassee, SC 29686

Harrison E. Orr  
District Two  
P.O. Box 1068  
Walhalla, SC 29691

Michael E. Harper  
District Three  
Post Office Box 977  
Seneca, SC 29679

Public Service Building  
208 Booker Drive  
Walhalla, SC 29691  
(803) 638-4244

Norman D. Crain  
Supervisor, Chairman  
317 Old Seneca Road  
Westminster, SC 29693  
(803) 638-4242 - Office

Roy B. Strickland  
District Four  
203 Isundega Street  
Westminster, SC 29693

Alton K. Williams  
District Five  
901 Pine Grove Road  
Seneca, SC 29678

Timothy M. Cain  
County Attorney  
Post Office Box 698  
Seneca, SC 29679

November 28, 1994

Mrs. Martha Bailey, Director  
Oconee County Library  
501 West South Broad Street  
Walhalla, S.C. 29691

Dear Mrs. Bailey:

The purpose of this correspondence is to thank you for your memo of November 14, 1994 referencing Mr. Chase's resignation.

Mr. Chase is a very impressive gentleman and I regret that he found it necessary to leave Oconee County's employment to advance/achieve his career objective.

Via copies of our correspondence I am informing County Council of this development.

As always, if I can be of any further assistance in this matter or any other please do not hesitate to contact me.

With warm regards, I am

Respectfully,



Norman D. Crain  
Supervisor-Chairman  
Oconee County Council

NDC/bjs

C: County Council Members w/a  
Opal Green, County Council Clerk  
Personnel Office  
File

# Oconee County Library

501 West South Broad Street  
Walhalla, South Carolina 29691  
(803) 638-4133

MEMO

TO: Norman Crain, Supervisor  
FROM: Martha Baily, Director  
DATE: November 14, 1994  
RE: Bill Chase leaving

Attached you will find a copy of Bill Chase's resignation. Bill, as you know, is the Adult Services/Reference Librarian whose position is being covered by the LSCA grant. He is taking a permanent position with the Greenville Library System as a reference librarian.

Bill has been a wonderful staff person, and has, over a period of time, come to know our collection well so that he was able to really begin to give quality reference service to our patrons. He was also able to select the adult materials that reflected a balanced viewpoint while considering the sensibilities of Oconee County citizens. I feel we have lost a person of great expertise in his area that will be hard to replace.

This illustrates, Mr. Crain, my frustration with the fact that we were unable to offer normal benefits of regular employees to this position. If we fill this position again, it will be for the third time in a little over a year and a half. I don't know if benefits alone would have kept Bill here, since his wife has found work outside our area. But I do feel that had he had some assurance that this would become a permanent position soon, it may have had some influence on his decision to leave or stay and his wife's willingness to look outside this area for a job.

I'm not sure what effect, if any, this will have on our grant funds. I am trying to get information from State Library staff about it now. We have already received the funds from the State to cover this salary through March 20, 1995, at which time the county has budgeted to pay the next quarter's salary as per our agreement. I do know it will only further complicate the recordkeeping that must be done.

I plan to ask Council to make this position permanent in the new budget requests. We desperately need someone to do the responsibilities covered by it, but we need someone who will stay with us and not leave at the first opportunity. I think that if this position is made permanent, we should be able to find someone to fill it and remain with us. I know there is nothing you personally can do about it at this point, but I just wanted to let you know my concern and to ask you to please support this request when it comes before the budget committee of Council.

Thanks so much. I will be happy to discuss this further with you at any time.

107 S. Laurel Street  
Walhalla, SC 29691  
November 14, 1994

Martha Baily  
Oconee County Library  
501 W. South Broad Street  
Walhalla, SC 29691

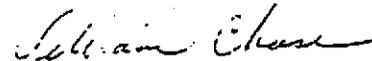
Dear Mrs. Baily:

I have accepted a position as reference librarian with the Greenville County Library. I submit this letter of resignation effective Friday December 2, 1994, 5:30 PM.

Know that I have enjoyed working for the Oconee County Library very much. The entire staff made me feel welcome and helped me become a useful member of the organization.

My experiences here provide a sound foundation for reference work in my new position. Thank you for giving me the opportunity to work in such a vital setting.

Sincerely yours,



William Chase

OCONEE COUNTY BID TABULATION

BID FOR: Fire Fighting Equipment for Rural Fire Departments DATE: November 16, 1994  
 BID NO: 94-16 LOCATION: Walhalla, SC 29691 TIME: 2:00 p.m.

BIDDERS	Charlotte Equip. Sales, Inc.	Carolina FireMasters, Inc.	Carolina Industrial Sales	Anderson Fire & Safety Eq. Co.	Carolina Safety Associates, Inc.
3 Globe trousers				145.00 435.00	236.00
5 Globe bib pants				169.00 845.00	304.00
11 Astra bib pants				193.00 2,123.00	291.00
9 BG pants bunker		163.25		146.00	217.00
9 Bunker coats				227.00	338.00
4 Coats Globe 35"				217.00 868.00	366.00
5 Coats short GX7				239.00	403.00
11 Coats Globe Ast				217.00 2,387.00	368.00
10 Prs suspenders	14.00	16.00		15.00	27.00
12 Prs driver boot	-	59.00		83.00	81.00
59 Long flash hood	13.00	16.75		15.00	16.00
24 Helmets complet	-	95.00		94.00	127.00
49 prs gloves hvy	14.00	14.65		20.00	21.50
100 ft. sect 5" hose		498.00	603.00	492.00 492.00	702.00
1 4 1/2 x 5" adaptor		132.00	384.00	180.00	302.00
4 Streamlights		97.00		82.00 328.00	120.00
1 2 1/2" valve screw		196.75		232.00	154.00 154.00
4 10' sect 5" hose	270.00	310.50	185.00 740.00	337.00	400.00
200 ft 1 3/4" hose	-	123.00 *		204.00 408.00	154.00
31 Alarm SPL	PA 3 92.00 *	104.25 5,004.00		-	91.00 *

ATTENDING OPENING: Pat Padgett, Bobby Williams, Charles Lancaster - Anderson Fire & Safety; Jenny Pray, Ann A.  
 \* Did not meet specifications.

OCONEE COUNTY BID TABULATION

BID FOR: Fire Fighting Equipment for Rural Fire Departments

DATE: November 16, 1994

BID NO: 94-16

LOCATION: Walhalla, SC 29691

TIME: 2:00 p.m.

BIDDERS	Fire Mark, Inc.	Firemart	Stevens Fire Equipment	Vista Sales & Service, Inc.	Fire Tech
3 Globe trousers	141.20 *	146.00	143.00 *	173.00	N/B
5 Globe bib pants	204.20	245.00	302.00	211.00	N/B
11 Astra bib pants	331.93	N/B	236.00	211.00	N/B
9 BG pants bunker	141.20	146.00	143.00	N/B	226.00
9 Bunker coats	212.00	234.00	196.00 1764.00	N/B	347.00
4 Coats Globe 35"	385.71	218.00	196.00 *	247.00	N/B
5 Coats short GX7	212.00 *	299.00	288.00	226.00 1130.00	N/B
11 Coats Globe Ast	322.18	N/B	254.00	249.99	N/B
10 Prs suspenders	13.50	13.00 *	13.90	12.00 *	17.00
12 Prs driver boot	66.30	56.95 683.40	59.90	79.02	N/B
67 <del>59</del> Long flash hood	17.33	14.30	10.71 717.57	15.79	17.00
30 <del>24</del> Helmets complet	116.09	89.80	86.00 2580.00	96.70	100.00
49 prs gloves hvy	22.05	25.50	20.65	18.80	24.00
100 ft. sect 5" hose	545.78	499.00	495.00	5.60/ft.	510.00
1 4 1/2" x 5" adaptor	165.00	124.50	180.00	145.00	103.00 *
4 Streamlights	84.13	84.97	82.00	88.00	100.00
1 2 1/2" valve screw		218.00	199.90	198.00	229.00
4 10' sect 5" hose		279.00	302.00	312.00	275.00
200' ft 1 3/4" hose	115.56 <sup>50' per</sup>	109.00	240.00	2.52/ft.	2.30/ft.
31 Alarm SP1		N/B	105.00	103.00 *	114.00

ATTENDING OPENING:

Page 1-C

OCCONEE COUNTY BID TABULATION

BID FOR: Fire Fighting Equipment for Rural Fire Departments

DATE: November 16, 1994

BID NO: 94-16

LOCATION: Walhalla, SC 29691

TIME: 2:00 p.m.

BIDDERS	Slagle's Fire Eq. & Supply Co., Inc.	Ashville Fire	Zimmerman-Edwards		
3 Globe trousers	152.95	No Bid	144.00	*	
5 Globe bib pants	178.73	"	210.00		
11 Astra bib pants	204.40	"	210.00		
9 BG pants bunker	152.95	"	134.00	1206.00	
9 Bunker coats	240.50	"	238.00		
4 Coats Globe 35"	228.96	"	238.00		
5 Coats short GX7	253.00	"	203.00	*	
11 Coats Globe Ast	230.20	"	203.00	*	
14 10 Prs suspenders	13.40 187.60	14.00/ea	9.00	*	
12 Prs driver boot	60.70	85.00/ea	67.00		
59 Long flash hood	15.00	20.00/ea	17.00		
24 Helmets complet	108.35	105.00/ea	98.00		
92 49 prs gloves hvy	24.00	28.00	13.00	1196.00	
100 ft. sect 5" hose	551.00	540.00	6.11/ft.		
1 4 1/2" adaptor	104.15 104.15	192.00	220.00		
4 Streamlights	84.25	110.00	99.00		
1 2 1/2" valve screw	187.35	260.00	200.00		
4 10' sect 5" hose	297.00	290.00	310.00		
200 Ft 1 3/4" hose	254.44	3.14/ft.	3.48/ft.		
31 Alarm SP1	98.50 *	110.00 PAL 3160.00	99.00	*	

ATTENDING OPENING:

OCONEE COUNTY BID TABULATION

BID FOR: Fire Fighting Equipment for Rural Fire Departments

DATE: November 16, 1994

BID NO: 94-16

LOCATION: Walhalla, SC 29691

TIME: 2:00 p.m.

BIDDERS	Charlotte Equip. Sales, Inc.	Carolina FireMasters, Inc.	Carolina Industrial Sales	Anderson Fire & Safety Eq. Co.	Carolina Safety Associates, Inc.
3 Turbo jet nozzl		430.00		458.00	400.00
4 Brackets		40.95		42.00	49.00
1 Salvage cover		99.00		—	157.00
2 Bunker gear bag		36.50		36.00	47.00
1 Hooligan tool		125.00		106.00	168.00
1 Apron foam set	719.00	674.10		720.00	—
2 Air tanks Scott		282.00 564.00		344.00	357.00
1 Burst hose jkt		303.00		413.00	477.00
3 #470 wrench set		49.75	56.50	60.00	81.00
50 Spanner wrench	9.00	6.50 325.00	11.00	7.70	10.00
		5,893.00	740.00	7,886.00	154.00
		294.65	37.00	394.30	7.70
		5,922.47 ✓	777.00 ✓	8,280.30 ✓	161.70 ✓

ATTENDING OPENING:

OCONEE COUNTY BID TABULATION

BID FOR: Fire Fighting Equipment for Rural Fire Departments DATE: November 16, 1994

BID NO: 94-16 LOCATION: Walhalla, SC 29691 TIME: 2:00 p.m.

QUANTITIES	Fire Mark, Inc.	Firemart	Stevens Fire Equipment	Vista Sales & Service, Inc.	Fire Tech
3 Turbo jet nozzl	413.80	449.00	376.00 1188.00	408.00	444.00
4 Brackets	63.23	36.00	29.00	41.00	70.00
1 Salvage cover	176.29	89.00	15.00 *	119.00	181.00
2 Bunker gear bag	30.47	39.00	28.00 56.00	30.32	29.00
1 Hooligan tool	120.00	105.00 105.00	106.00	135.00	140.00
1 Apron foam set	349.60 Cast 217.160 Pyrolite	720.00	283.00	660.00	558.00
2 Air tanks Scott	369.13	N/B	298.00	N/B	N/B
1 Burst hose jkt	291.27	299.00	362.00	287.00	313.00
3 #470 wrench set	67.39	49.00	41.00 123.00	72.00	81.00
50 Spanner wrench	9.78	6.70	6.97	9.40	19.00
		788.40	6,428.57	1130.00	
		39.42	321.43	56.50	
		827.82 ✓	6,750.00 ✓	1186.50 ✓	

ATTENDING OPENING:

OCONEE COUNTY BID TABULATION

BID FOR: Fire Fighting Equipment for Rural Fire Departments DATE: November 16, 1994

BID NO: 94-16 LOCATION: Walhalla, SC 29691 TIME: 2:00 p.m.

BIDDERS	Slagle's Fire Eq. & Supply Co., Inc	Ashville Fire	Zimmerman Equip
3 Turbo jet nozzl	406.00	457.00	442.00
4 Brackets	25.00 100.00	70.00	40.00
1 Salvage cover	88.00 88.00	120.00	91.00
2 Bunker gear bag	35.00	34.00	32.00
1 Hooligan tool	112.00	105.00	122.00
1 Apron foam set	639.00	725.00	240.00
2 Air tanks Scott	356.00	335.00	375.00
1 Burst hose jkt	287.00 287.00	350.00	311.00
3 #470 wrench set	54.85	65.00	61.00
50 Spanner wrench	9.85	9.00	11.00
	766.75		2,402.00
	38.34		120.10
	805.09 ✓		2,522.10 ✓

ATTENDING OPENING:

BID NO. 94-16  
 (Use this number on envelopes & all related correspondence)

BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALHALLA, S.C. 29691

The CHARLOTTE EQUIPMENT SALES, INC. submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....		
5	Pairs Globe bib pants w/suspenders..		
11	Pairs Astra bib pants w/suspenders..		
9	Pairs BG pants Janesville bunker....		
9	Bunker coats 7.5 oz Janesville.....		
4	Coats Globe 35" .....		
5	Coats short GX-7 Globe.....		
11	Coats Globe Astra style.....		
10	Pairs suspenders. <i>2" H.D. REFLECTIVE SCOTCHLUX 14"</i>		<i>140.00</i>
12	Pairs Servus driver boots.....		
	<i>cos. 22" NUTTALL D.L. HOOD</i>	<i>13.92</i>	<i>167.00</i>
59	<del>Fire Dex long flash hoods.....</del>		
24	Bullard PX2192 helmets complete.....		
49	Pairs gloves heavy duty. <i>NFPA 1973. 1988 ed. 14.00</i>		<i>686.00</i>
100'	Section of 5" hose w/storz couplings		
1	4 1/2" x 5" double female adaptor...		
4	SL45 Streamlights basic system.....		
1	2 1/2" Gate & Hydrae valve screw....		
4	10" sections 5" flex suction hose. <i>coupled. 370.00</i>		<i>1080.00</i>
200'	1 3/4" hose HFX Snaptite.....		
	<i>DAL-3 1983 NFPA</i>	<i>92.00</i>	<i>2852.00</i>
31	<del>Super Pass alarm Model <del>801</del></del> .....		
3	#1723P Akron turbo jet nozzle mid...		
4	Walk-away brackets for Scott air pk.		
1	Salvage cover - red heavy duty.....		
2	Bunker gear bags jumbo.....		
1	Hooligan tool 30".....		
1	2.5 inlet and tube apron foam set. <i>Per spec.</i>		<i>719.00</i>

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....		
5	Pairs Globe bib pants w/suspenders..		
11	Pairs Astra bib pants w/suspenders..		
9	Pairs BG pants Janesville bunker....		
9	Bunker coats 7.5 oz Janesville.....		
4	Coats Globe 35" .....		
5	Coats short GX-7 Globe.....		
11	Coats Globe Astra style.....		
10	Pairs suspenders..... <i>2" H.D. REFLECTIVE SCOTCHUM 140"</i>		140.00
12	Pairs Servus driver boots.....		
	<i>CS. 32" NORMAN D.L. HOOD</i>	13.00	156.00
59	<del>Fire Dex long flash hoods.....</del>		
24	Bullard PX2192 helmets complete.....		
49	Pairs gloves heavy duty..... <i>NFWA 1973. 1988 ed. 1400</i>		686.00
100'	Section of 5" hose w/storz couplings		
1	4 1/2" x 5" double female adaptor...		
4	SL45 Streamlights basic system.....		
1	2 1/2" Gate & Hydrae valve screw....		
4	10" sections 5" flex suction hose..... <i>copied. 270.00</i>		1080.00
200'	1 3/4" hose HFX Snaptite.....		
	<i>DAL-3 1983 NFWA</i>	92.00	18400.00
31	<del>Super Pass alarm Model <del>801</del>.....</del>		
3	#1723P Akron turbo jet nozzle mid...		
4	Walk-away brackets for Scott air pk.		
1	Salvage cover - red heavy duty.....		
2	Bunker gear bags jumbo.....		
1	Hooligan tool 30".....		
1	2.5 inlet and tube apron foam set..... <i>Per spec.</i>		719.00
2	Air tanks Scott 30 min PSI ltwtg....		
1	Akron burst hose jacket.....		
3	#470 spanner & hydrant wrench set...		
	<i>CS-SPANNER -</i>	9.00	27.00
50	Ltwtg universal spanner wrenches....		450.00

Bid shall include delivery to location stated on Bid Notice.  
 Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: Stock to 3 weeks  
 BIDDING ORGANIZATION CHARLOTTE EQUIP. SUPPLY INC  
 ADDRESS: P.O. BOX 7247  
 CITY, STATE, ZIP CODE CHARLOTTE NC 28241  
 SIGNATURE OF BIDDERS REPRESENTATIVE [Signature]  
 TITLE J-SALES  
 DATE 11-4-74  
 TELEPHONE 704-388-1206

\* ONE WILL  
 SUPPLY 184  
 LENZING D.L  
 HOOD ONE  
 TIME AS  
 SHAME PRICE

BID NO. 94-16  
 (Use this number on envelopes & all related correspondence)

BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALHALLA, S.C. 29691

The Carolina FireMasters Inc. submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....	M/B	
5	Pairs Globe bib pants w/suspenders..	M/B	
11	Pairs Astra bib pants w/suspenders..	M/B	
9	Pairs BG pants Janesville bunker....	163.25	1469.25
9	Bunker coats 7.5 oz Janesville.....	261.00	2,349.00
4	Coats Globe 35" .....	M/B	
5	Coats short GX-7 Globe.....	M/B	
11	Coats Globe Astra style.....	M/B	
10	Pairs suspenders.....	16.00	160.00
12	Pairs Servus driver boots.....	59.00	708.00
59	Fire Dex long flash hoods.....	16.75	988.25
24	Bullard PX2192 helmets complete.....	95.00	2280.00
49	Pairs gloves heavy duty.....	14.65	717.85
100'	Section of 5" hose w/storz couplings		498.00
1	4 1/2" x 5" double female adaptor...		132.00
4	SL45 Streamlights basic system.....	97.00	388.00
1	2 1/2" Gate & Hydræ valve screw....		196.75
4	10" sections 5" flex suction hose...	310.50	1242.00
200'	1 3/4" hose <del>NPX</del> <i>Snaptite Red Chief</i> ..	123.00	492.00
31	Super Pass alarm Model SP1.....	104.25	3,231.75
3	#1723P Akron turbo jet nozzle mid...	432.00	1,296.00
4	Walk-away brackets for Scott air pk.	40.95	163.80
1	Salvage cover - red heavy duty.....		99.00
2	Bunker gear bags jumbo.....	36.50	73.00
1	Hooligan tool 30".....		125.00
1	2.5 inlet and tube apron foam set...	674.10	674.10
		782.00	564.00

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....	M/B	
5	Pairs Globe bib pants w/suspenders..	M/B	
11	Pairs Astra bib pants w/suspenders..	M/B	
9	Pairs BG pants Janesville bunker....	163.25	1469.25
9	Bunker coats 7.5 oz Janesville.....	261.00	2349.00
4	Coats Globe 35" .....	M/B	
5	Coats short GX-7 Globe.....	M/B	
11	Coats Globe Astra style.....	M/B	
10	Pairs suspenders.....	16.00	160.00
12	Pairs Servus driver boots.....	59.00	708.00
59	Fire Dex long flash hoods.....	16.75	988.25
24	Bullard PX2192 helmets complete.....	95.00	2280.00
49	Pairs gloves heavy duty.....	14.65	717.85
100'	Section of 5" hose w/storz couplings		498.00
1	4 1/2" x 5" double female adaptor...		132.00
4	SL45 Streamlights basic system.....	97.00	388.00
1	2 1/2" Gate & Hydras valve screw....		176.75
4	10" sections 5" flex suction hose...	310.50	1242.00
200'	1 3/4" hose <del>1 1/2" Swaptite</del> Red Chief..	123.00	492.00
31	Super Pass alarm Model SP1.....	104.25	3231.75
3	#1723P Akron turbo jet nozzle mid...	432.00	1296.00
4	Walk-away brackets for Scott air pk.	40.95	163.80
1	Salvage cover - red heavy duty.....		99.00
2	Bunker gear bags jumbo.....	36.50	73.00
1	Hooligan tool 30".....		125.00
1	2.5 inlet and tube apron foam set...	674.10	674.10
2	Air tanks Scott 30 min PSI ltwtg....	282.00	564.00
1	Akron burst hose jacket.....		303.00
3	#470 spanner & hydrant wrench set... <sup>Red Head</sup>	49.75	149.25
50	Ltwtg universal spanner wrenches....	6.50	325.00

Bid shall include delivery to location stated on Bid Notice.  
Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: 60-100 Days ARO  
BIDDING ORGANIZATION Caroline Fire Martess Inc.  
ADDRESS: P.O. BOX 1116  
CITY, STATE, ZIP CODE Beaufortville, S.C. 29512

SIGNATURE OF BIDDERS REPRESENTATIVE Thomas C. White  
TITLE salesman  
DATE 11-4-94  
TELEPHONE 1-800-741-7410

BID NO. 94-16  
 (Use this number on envelopes & all related correspondence)

BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALHALLA, S.C. 29691

The \_\_\_\_\_ submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....		
5	Pairs Globe bib pants w/suspenders..		
11	Pairs Astra bib pants w/suspenders..		
9	Pairs BG pants Janesville bunker....		
9	Bunker coats 7.5 oz Janesville.....		
4	Coats Globe 35" .....		
5	Coats short GX-7 Globe.....		
11	Coats Globe Astra style.....		
10	Pairs suspenders.....		
12	Pairs Servus driver boots.....		
59	Fire Dex long flash hoods.....		
24	Bullard PX2192 helmets complete.....		
49	Pairs gloves heavy duty.....		
100'	Section of 5" hose w/storz couplings	603.00	603.00
1	4 1/2" x 5" double female <sup>STORZ</sup> adaptor...	384.00	384.00
4	SL45 Streamlights basic system.....		
1	2 1/2" Gate & Hydrae valve screw....		
4	10" sections 5" flex suction hose...	185.00 ea	740.00
200'	1 3/4" hose HFX Snaptite.....	156.25 ea	625.00
31	Super Pass alarm Model SP1.....		
3	#1723P Akron turbo jet nozzle mid...		
4	Walk-away brackets for Scott air pk.		
1	Salvage cover - red heavy duty.....		
2	Bunker gear bags jumbo.....		
1	Hooligan tool 30".....		
1	2.5 inlet and tube apron foam set...		
2	air tanks Scott 20 min PST 14wt		

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....		
5	Pairs Globe bib pants w/suspenders..		
11	Pairs Astra bib pants w/suspenders..		
9	Pairs BG pants Janesville bunker....		
9	Bunker coats 7.5 oz Janesville.....		
4	Coats Globe 35" .....		
5	Coats short GX-7 Globe.....		
11	Coats Globe Astra style.....		
10	Pairs suspenders.....		
12	Pairs Servus driver boots.....		
59	Fire Dex long flash hoods.....		
24	Bullard PX2192 helmets complete.....		
49	Pairs gloves heavy duty.....		
100'	Section of 5" hose w/storz couplings	603.00	603.00
1	4 1/2" x 5" double female <sup>STORZ</sup> adaptor...	384.00	384.00
4	SL45 Streamlights basic system.....		
1	2 1/2" Gate & Hydrae valve screw....		
4	10" sections 5" flex suction hose...	185.00 ea	740.00
200'	1 3/4" hose HFX Snaptite.....	156.25 ea	625.00
31	Super Pass alarm Model SP1.....		
3	#1723P Akron turbo jet nozzle mid...		
4	Walk-away brackets for Scott air pk.		
1	Salvage cover - red heavy duty.....		
2	Bunker gear bags jumbo.....		
1	Hooligan tool 30".....		
1	2.5 inlet and tube apron foam set...		
2	Air tanks Scott 30 min PSI ltwtg....		
1	AKRON burst hose jacket.....		
4	3 #470 <sup>8 Pie SET.</sup> spanner & hydrant wrench set...	56.50 ea	226.00
50	Ltwtg universal spanner wrenches....	11.00 ea	550.00

Bid shall include delivery to location stated on Bid Notice.  
 Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: 30 days ARO  
 BIDDING ORGANIZATION CAROLINA Ind. Sales Inc  
 ADDRESS: P.O. BOX 2037 Highway 378 W  
 CITY, STATE, ZIP CODE Lexington SC 29072

SIGNATURE OF BIDDERS REPRESENTATIVE [Signature]  
 TITLE Pres.  
 DATE 11-7-94  
 TELEPHONE 803-359-7994

**ANDERSON FIRE & SAFETY**  
P.O. Box 1265  
West Standridge Rd.  
ANDERSON, SOUTH CAROLINA 29622

1573

(803) 225-1128 225-0081

PLEASE INDICATE THE ABOVE NUMBER WHEN ORDERING

TO  
Oconee County Purchasing Dept.  
201 West Main Street  
Walhalla, S.C. 29691

QUOTATION DATE 11/1/94	SALESPERSON Charles Lancaster
INQUIRY DATE	INQUIRY NUMBER

QUANTITY	DESCRIPTION	PRICE	AMOUNT
12	Pr. Ranger Boots #PG52	\$83 00	\$996 00
59	Charkate #20016 Hoods-Long	\$15 00	\$885 00
24	Bullard Helmets -complete	\$94 00	\$2256 00
49	Pr. Charkate Gloves	\$20 00	\$980 00
100	Ft. Section of 5" Fire Hose w storz couplings		\$492 00
1	4.5"x 5" Double Female Adaptor(PSA 50 ft.NST		\$180 00
4	10" Sections 5"M Flex suction hose	\$337 00	\$1348 00
4	SL45 Streamlight basic system#45116	\$82 00	\$328 00
1	2.5" Gate & Hydrac valve screw Akron#2285		\$232 00
200	Ft. x 1 3/4" Hose HFX -Snaptite	\$204 00	\$408 00
37	Super pass alarm Model #SP1		NO BID
3	#1723P Akron turbojet nozzles mid.	\$458 00	\$1374 00
4	Walk-a-way brackets for Scott air paks-Zico	\$42 00	\$168 00
1	Savage cover-		NO bid
2	Globe Firefighter Bags-Jumbo	\$36 00	\$72 00
1	Hooligan Tool		\$106 00
1	2.5 inlet and tube apron foam set(Akron) #2950-3952-2115		\$720 00
2	Air tanks Scott 30 min. PSI lightweight#804101-01	\$344 00	\$688 00
1	Akron burst hose jacket#773 for 3" hose		\$413 00
3	#470 Spanner Wrench a hydrant wrench sets (RH 148-3)	\$60 00	\$180 00
50	Light weight universal spanner wrenches #101	\$ 7 70	\$385 00

WE ARE PLEASED TO SUBMIT THE ABOVE QUOTATION FOR YOUR CONSIDERATION. SHOULD YOU PLACE AN ORDER, BE ASSURED IT WILL RECEIVE OUR PROMPT ATTENTION. THIS QUOTATION IS SUBJECT TO THE CONDITIONS PRINTED ON REVERSE SIDE AND IS VALID FOR \_\_\_\_\_ DAYS. THEREAFTER IT IS SUBJECT TO CHANGE WITHOUT NOTICE.

ACCEPTED \_\_\_\_\_ DATE \_\_\_\_\_

QUANTITY	DESCRIPTION	PRICE	AMOUNT
12	Pr. Ranger Boots #PG52	\$83 00	\$996 00
59	Charkate #20016 Hoods-Long	\$15 00	\$885 00
24	Bullard Helmets -complete	\$94 00	\$2256 00
49	Pr. Charkate Gloves	\$20 00	\$980 00
100	Ft. Section of 5" Fire Hose w storz couplings		\$492 00
1	4.5"x 5" Double Female Adaptor(FSA 50 ft.NST)		\$180 00
4	10" Sections 5"M Flex suction hose	\$337 00	\$1348 00
4	SL45 Streamlight basic system#45116	\$82 00	\$328 00
1	2.5" Gate & Hydras valve screw Akron#2285		\$232 00
200	Ft. x 1 3/4" Hose HFX -Snaptite	\$204 00	\$408 00
31	Super pass alarm Model #SP1		No Bid
3	#1723P Akron turbojet nozzles mid.	\$458 00	\$1374 00
4	Walk-a-way brackets for Scott air paks-2100	\$42 00	\$168 00
1	Savage cover-		No bid
2	Globe Firefighter Bags-Jumbo	\$36 00	\$72 00
1	Hooligan Tool		\$106 00
1	2.5 inlet and tube apron foam set(Akron) #2950-3952-2115		\$720 00
2	Air tanks Scott 30 min. PSI lightweight#804101-01	\$344 00	\$688 00
1	Akron burst hose jacket#773 for 3" hose		\$413 00
3	#470 Spanner Wrench & hydrant wrench sets (RH 14B-3)	\$60 00	\$180 00
50	Light weight universal spanner wrenches #101	\$ 7 70	\$385 00

WE ARE PLEASED TO SUBMIT THE ABOVE QUOTATION FOR YOUR CONSIDERATION. SHOULD YOU PLACE AN ORDER, BE ASSURED IT WILL RECEIVE OUR PROMPT ATTENTION. THIS QUOTATION IS SUBJECT TO THE CONDITIONS PRINTED ON REVERSE SIDE, AND IS VALID FOR \_\_\_\_\_ DAYS. THEREAFTER IT IS SUBJECT TO CHANGE WITHOUT NOTICE.

ACCEPTED \_\_\_\_\_ DATE \_\_\_\_\_

ON AND RETURN YELLOW ACCEPTANCE COPY WHEN ORDERING.

*Thank You!*

50" light weight universal spanner wrenches

Bid shall include delivery to location stated on Bid Notice.  
Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: Clothing 75 days other items 30 days  
BIDDING ORGANIZATION Anderson Fire & Safety  
ADDRESS: P.O. BOX 1265  
CITY, STATE, ZIP CODE ANDERSON, S.C. 29629

SIGNATURE OF BIDDERS REPRESENTATIVE Charlie Lanier  
TITLE Sales Rep  
DATE 11/4/94

BID NO. 94-16  
 (Use this number on envelopes & all related correspondence)

BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALHALLA, S.C. 29691

The CAROLINA SAFETY ASSOCIATES submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....	236.00	708.00
5	Pairs Globe bib pants w/suspenders..	304.00	1520.00
11	Pairs Astra bib pants w/suspenders..	291.00	3201.00
9	Pairs BG pants Janesville bunker....	219.00	1971.00
9	Bunker coats 7.5 oz Janesville.....	338.00	3042.00
4	Coats Globe 35" .....	366.00	1464.00
5	Coats short GX-7 Globe.....	403.00	2015.00
11	Coats Globe Astra style.....	368.00	4048.00
10	Pairs suspenders.....	27.00	270.00
12	Pairs Servus driver boots.....	81.00	972.00
59	Fire Dex long flash hoods.....	16.00	944.00
24	Bullard PX2192 helmets complete.....	127.00	3048.00
49	Pairs gloves heavy duty.....	21.50	1053.50
100'	Section of 5" hose w/storz couplings	702.00	702.00
1	4 1/2" x 5" double female adaptor...	302.00	302.00
4	SL45 Streamlights basic system.....	120.00	480.00
1	2 1/2" Gate & Hydrae valve screw....	* 154.00	154.00
4	10" sections 5" flex suction hose...	400.00	1600.00
200'	1 3/4" hose HFX Snaptite.....	154.00 <i>cash</i>	<del>154.00</del> 616.00
31	Super Pass alarm Model SP1.....	* 91.00	2821.00
3	#1723P Akron turbo jet nozzle mid...	* 400.00	1200.00
4	Walk-away brackets for Scott air pk.	49.00	196.00
1	Salvage cover - red heavy duty.....	157.00	157.00
2	Bunker gear bags jumbo.....	47.00	94.00
1	Hooligan tool 30".....	168.00	168.00
1	2.5 inlet and tube apron foam set...	NO BID	NO BID
2	Air tanks Scott 30 min PSI ltwgt....	357.00	714.00

\*POWHATTON VALA

\*RACAL ALLY

\*CHEMGUARD  
MRAISP

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....	236.00	708.00
5	Pairs Globe bib pants w/suspenders..	304.00	1520.00
11	Pairs Astra bib pants w/suspenders..	291.00	3201.00
9	Pairs BG pants Janesville bunker....	219.00	1971.00
9	Bunker coats 7.5 oz Janesville.....	338.00	3042.00
4	Coats Globe 35" .....	366.00	1464.00
5	Coats short GX-7 Globe.....	403.00	2015.00
11	Coats Globe Astra style.....	368.00	4048.00
10	Pairs suspenders.....	27.00	270.00
12	Pairs Servus driver boots.....	81.00	972.00
59	Fire Dex long flash hoods.....	16.00	944.00
24	Bullard PX2192 helmets complete.....	127.00	3048.00
49	Pairs gloves heavy duty.....	21.50	1053.50
100'	Section of 5" hose w/storz couplings	702.00	702.00
1	4 1/2" x 5" double female adaptor...	302.00	302.00
4	SL45 Streamlights basic system.....	120.00	480.00
1	2 1/2" Gate & Hydrae valve screw....	* 154.00	154.00
4	10" sections 5" flex suction hose...	400.00	1600.00
200'	1 3/4" hose HFX Snaptite.....	154.00 each	<del>154.00</del> 616.00
31	Super Pass alarm Model SP1.....	* 91.00	2821.00
3	#1723P Akron turbo jet nozzle mid...	* 400.00	1200.00
4	Walk-away brackets for Scott air pk.	49.00	196.00
1	Salvage cover - red heavy duty.....	157.00	157.00
2	Bunker gear bags jumbo.....	47.00	94.00
1	Hooligan tool 30".....	168.00	168.00
1	2.5 inlet and tube apron foam set...	NO BID	NO BID
2	Air tanks Scott 30 min PSI ltwtg....	357.00	714.00
1	Akron burst hose jacket.....	477.00	477.00
3	#470 spanner & hydrant wrench set...	81.00	243.00
50	Ltwtg universal spanner wrenches....	10.00	500.00

\*POWHATTON VAL

\*RACAL ALLY

\*CHEMGUARD  
MRAISP

Bid shall include delivery to location stated on Bid Notice.  
Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: \_\_\_\_\_  
 BIDDING ORGANIZATION CAROLINA SAFETY ASSOCIATES  
 ADDRESS: P.O. BOX P.O. BOX 18402  
 CITY, STATE, ZIP CODE SPARTANBURG, S.C. 29318

SIGNATURE OF BIDDERS REPRESENTATIVE *David Bradman*  
 TITLE Manager  
 DATE 11-14-94

FIRE MARK, INC  
 ROUTE 1 BOX 145  
 LAURENS, SOUTH CAROLINA  
 29360

\*\*\*\*\*  
 \* QUOTE \*  
 \*\*\*\*\*

Document Number: 000348

Document Date: 11/07/94

Page: 1

Sold OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship Via.: BEST WAY  
 Ship Date: 11/07/94  
 Due Date.: 11/07/94  
 Terms.....: NET CASH

Cust I.D.....: OCONEE  
 P.O. Number...:  
 P.O. Date.....: 11/07/94  
 Job/Order No.:  
 Salesperson...: TRO

Item I.D./Desc.	Ordered	Shipped	Unit	Price	Net	TX
ERV11407 SERVUS DRIVERS BOOT	12.00	0.00	EACH	66.3000	795.60	T
AME200-209 NFPA 80Z. DOUBLE LAYER NOMEX 8-1/2" BIB	59.00	0.00	EACH	17.3300	1022.47	T
AME7300 KNITWRIST, POLYURETHANE MOISTURE BARRIERNFPA	49.00	0.00	EACH	22.0500	1080.45	T
SNA500HFX100/5S 5" X 100' HFX HOSE WITH 5" STANDARD 3- PART STORZ COUPLINGS	1.00	0.00	SECT	545.7800	545.78	T
KOCPVC5X10NST LH FEMALE RL MALE	4.00	0.00	EACH	338.8800	1355.52	T

Continued ....

Subtotal: 4799.82

FIRE MARK, INC  
 ROUTE 1 BOX 145  
 LAURENS, SOUTH CAROLINA  
 29360

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Document Number: 000348

Document Date: 11/07/94

Page: 2

Sold OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship Via.: BEST WAY  
 Ship Date: 11/07/94  
 Due Date.: 11/07/94  
 Terms.....: NET CASH

Cust I.D.....: OCONEE  
 P.O. Number...:  
 P.O. Date.....: 11/07/94  
 Job/Order No.:  
 Salesperson...: TRO

Item I.D./Desc.	Ordered	Shipped	Unit	Price	Net	TX
NA175HFX50/15NST 1-3/4" X 50' HFX HOSE WITH 1-1/2" NST COUPLINGS	4.00	0.00	SECT	115.5600	462.24	T
STR451071 LITE BOX W/MOUNTABLE 12 VOLT DC HARDWAREMOUNTING RACK & SHOULDER STRAP. (NO AC CHARGER SAFETY ORANGE.	4.00	0.00	EACH	84.1300	336.52	T
AKR1723P TURBOJET LIGHTWEIGHT NOZZLE	3.00	0.00	EACH	413.8000	1241.40	T
AMEB51RS RED W/ MALTESE CROSS STENCIL	2.00	0.00	EACH	30.4700	60.94	T

Continued ....

Subtotal: 6900.92

FIRE MARK, INC  
 ROUTE 1 BOX 145  
 LAURENS, SOUTH CAROLINA  
 29360

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 \* QUOTE \*  
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Document Number: 000348

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Page: 3

Sold OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship Via.: BEST WAY  
 Ship Date: 11/07/94  
 Due Date.: 11/07/94  
 Terms....: NET CASH

Cust I.D.....: OCONEE  
 P.O. Number...:  
 P.O. Date....: 11/07/94  
 Job/Order No.:  
 Salesperson...: TRO

Item I.D./Desc.	Ordered	Shipped	Unit	Price	Net	TX
CO804102-01 SCOTT 2.2 LIGHTWEIGHT 30 MINUTE SPARE CYLINDER	2.00	0.00	EACH	364.1300	728.26	T
AKR772 AKROLITE	1.00	0.00	EACH	291.2710	291.27	T
AKR10 ALL PURPOSE WRENCH FOR 3/4"-3" ROCKER LUG AND PIN LUG COUPLINGS. BELT HOOK EYE, HAMMER LEAD AND GAS COCK SHUT OFF, LENGTH 11-1/2", WT. 8 OZ.	50.00	0.00	EACH	9.9800	499.00	T
AKR2443 TRIPLE WRENCH HOLDER WITH (1) STYLE 15, AND (2) STYLE 10 WRENCHES	3.00	0.00	EACH	67.3900	202.17	T

Continued ....

Subtotal: 8621.62

FIRE MARK, INC  
 ROUTE 1 BOX 145  
 LAURENS, SOUTH CAROLINA  
 29360

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 \* QUOTE \*  
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Document Number: 000348

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Page: 4

Sold OCONEE COUNTY PURCHASING  
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 WALHALLA, S.C.  
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Ship OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship Via.: BEST WAY  
 Ship Date: 11/07/94  
 Due Date.: 11/07/94  
 Terms.....: NET CASH

Cust I.D.....: OCONEE  
 P.O. Number...:  
 P.O. Date.....: 11/07/94  
 Job/Order No.:  
 Salesperson...: TRO

Item I.D./Desc.	Ordered	Shipped	Unit	Price	Net	TX
AKR2120 IN-LINE (CAST)	1.00	0.00	EACH	349.6000	349.60	T
AKR2285 PYROLITE	1.00	0.00	EACH	217.6000	217.60	T
BULFXA123 BULLARD FIREDOME FXA123 -FIBERGLASS OUT- SHELL, URETHANE IMPACT LINER, NOMEXCHIN & CROWN STRAP, QUICK RELEASE BUCKLE, SIDE FASTEN,PBI NECK PROTECT.,4"PPC SHIE	24.00	0.00	EACH	116.0470	2785.13	T
PARA PARATECH HOOLICAN TOOL 36"	1.00	0.00	EACH	120.0000	120.00	T

Continued ....

Subtotal: 12093.95

FIRE MARK, INC  
 ROUTE 1 BOX 145  
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 29360

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 \* QUOTE \*  
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Document Number: 000348

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Page: 5

Sold OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
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Ship OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship Via.: BEST WAY  
 Ship Date: 11/07/94  
 Due Date.: 11/07/94  
 Terms.....: NET CASH

Cust I.D.....: OCONEE  
 P.O. Number..:  
 P.O. Date.....: 11/07/94  
 Job/Order No.:  
 Salesperson..: TRO

Item I.D./Desc.	Ordered	Shipped	Unit	Price	Net	TX
ME S60R RED NON-REFLECTIVE SUSPENDERS W/METAL SPRING CLIPS 8PT. TRADITIONAL	10.00	0.00	PAIR	13.5000	135.00	T
KOC057LH6X4-1/2 KOCHEK 4.5" X 6" LONG HANDLE DOUBLE SWIVEL FEMALE ADAPTER	1.00	0.00	EACH	165.0000	165.00	T
ZICSC-102-Y ZICO 10 OZ. 12' X 14' NYLON SALVAGE COVER- YELLOW	1.00	0.00	EACH	176.2900	176.29	T
ZICUH-6-30-3-F-PHS SCBA BRACKET FOR 2216 PSI STEEL CYLINDER WITH FOOT AND POSITIVE HOLDING STRAP	4.00	0.00	EACH	63.2300	252.92	T

Continued ....

Subtotal: 12823.16

FIRE MARK, INC  
 ROUTE 1 BOX 145  
 LAURENS, SOUTH CAROLINA  
 29360

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 \* QUOTE \*  
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Document Number: 000348

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Page: 6

Sold OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship Via.: BEST WAY  
 Ship Date: 11/07/94  
 Due Date: 11/07/94  
 Terms.....: NET CASH

Cust I.D.....: OCONEE  
 P.O. Number...:  
 P.O. Date.....: 11/07/94  
 Job/Order No.:  
 Salesperson...: TRO

Item I.D./Desc.	Ordered	Shipped	Unit	Price	Net	TX
ECQ-PANT, BLK L Q-SERIES PANT, 7.5 NOMEX SHELL, NEOPRENE ON POLYCOTTON MB, Q-9 NOMEX BATTING TL, NFPA 1991 COMPLIANT, SCOTCHLITE TRIM (LIME) BLACK, LARGE	3.00	0.00	EACH	141.2000	423.60	T
SECSTX6RBJN SECURITEX STX BACK BIB PANT W/REMOVABLE LINER, 6.0 OZ. NOMEX RIPSTOP OUTERSHELL, 4.0 OZ. VAPRO MOISTURE BARRIER, 9.3 OZ. NOMEX BATTING ON NOMEX	5.00	0.00	EACH	204.2000	1021.00	T

Continued ....

Subtotal: 14267.76

FIRE MARK, INC  
 ROUTE 1 BOX 145  
 LAURENS, SOUTH CAROLINA  
 29360

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 \* QUOTE \*  
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Document Number: 000348

Document Date: 11/07/94

Page: 7

Sold OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship Via.: BEST WAY  
 Ship Date: 11/07/94  
 Due Date.: 11/07/94  
 Terms.....: NET CASH

Cust I.D.....: OCONEE  
 P.O. Number...:  
 P.O. Date.....: 11/07/94  
 Job/Order No.:  
 Salesperson...: TRO

Item I.D./Desc.	Ordered	Shipped	Unit	Price	Net	TX
ECSTX6RGLN SECURITEX BACK BIB PANT, 6.2 OZ PBI/KEVLAR OUTER SHELL, 4.0 OZ GORTEX MOISTURE BARRIER, 9.3 OZ NOMEX BATT ON NOMEX THERMAL LINER, NFPA	11.00	0.00	EACH	331.9300	3651.23	T
SECQ-PANT, BLK L Q-SERIES PANT, 7.5 NOMEX SHELL, NEOPRENE ON POLYCOTTON MB, Q-9 NOMEX BATTING TL, NFPA 1991 COMPLIANT, SCOTCHLITE TRIM (LIME) BLACK, LARGE	9.00	0.00	EACH	141.2000	1270.80	T

Continued ....

Subtotal: 19189.79

FIRE MARK, INC  
 ROUTE 1 BOX 145  
 LAURENS, SOUTH CAROLINA  
 29360

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 \* QUOTE \*  
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Document Number: 000348

Document Date: 11/07/94

Page: 8

Sold OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship Via.: BEST WAY  
 Ship Date: 11/07/94  
 Due Date.: 11/07/94  
 Terms.....: NET CASH

Cust I.D.....: OCONEE  
 P.O. Number...:  
 P.O. Date.....: 11/07/94  
 Job/Order No.:  
 Salesperson...: TRO

Item I.D./Desc.	Ordered	Shipped	Unit	Price	Net	TX
SECQ-COAT BLK,L Q-SERIES COAT, 7.5 NOMEX SHELL, NEOPRENE ON POLYCOTTON MB, Q-9 NOMEX BATTING TL, NFPA 1991 COMPLIANT, SCOTCHLITE TRIM (LIME), BACK, LARGE	9.00	0.00	EACH	212.0000	1908.00	T
SECSTX5RZGJN SECURITEX 35" BUNKER COAT WITH 6.2 OZ. PBI/KEVLAR OUTERSHELL, VAPRO MOISTURE BARRIER, Q-9 NOMEX BATTING THERMAL LINER	4.00	0.00	EACH	385.7100	1542.84	T
SECQ-COAT BLK,L Q-SERIES COAT, 7.5 NOMEX SHELL, NEOPRENE ON POLYCOTTON MB, Q-9 NOMEX BATTING TL, NFPA 1991 COMPLIANT, SCOTCHLITE TRIM (LIME), BACK, LARGE	5.00	0.00	EACH	212.0000	1060.00	T

Continued ....

Subtotal: 23700.63

FIRE MARK, INC  
 ROUTE 1 BOX 145  
 LAURENS, SOUTH CAROLINA  
 29360

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 \* QUOTE \*  
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Document Number: 000348

Document Date: 11/07/94

Page: 9

Sold OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship OCONEE COUNTY PURCHASING  
 To: 201 WEST MAIN STREET  
 WALHALLA, S.C.  
 29691

Ship Via.: BEST WAY  
 Ship Date: 11/07/94  
 Due Date.: 11/07/94  
 Terms.....: NET CASH

Cust I.D.....: OCONEE  
 P.O. Number...:  
 P.O. Date.....: 11/07/94  
 Job/Order No.:  
 Salesperson...: TRO

Item I.D./Desc.	Ordered	Shipped	Unit	Price	Net	TX
CSTX2RBLN SECURITEX 32" JACKET W/REMOVABLE LINER, 6.0 OZ. NOMEX RIPSTOP, OUTERSHELL, 4.0 OZ. GORE-TEX ON E-89 SPUNLACE, MOISTURE BARRIER, 9.3 OZ, NOMEX BATTING ON NOMEX	11.00	0.00	EACH	322.1800	3543.98	T
SECMSHJP SECURITEX ULTRALITE SMS TURNOUT COAT AND PANT; 6.0 OSY DURALITE OUTER SHELL, 3.8 OZ VAPRO ON E-89 MB, 6.5 OSY ULTRAFLEX	0.00	0.00	SET	645.0000	0.00	T

*Info Included.*

TL  
 NO BID ON SUPERPASS MONITORS ✕  
 FREIGHT NOT INCLUDED

Subtotal: 27244.61  
 Tax.....: 1362.23  
 Total....: 28606.84



TERRY DAVIS  
Owner

**FIREMART**

Division of WTD SERVICES  
PO Box 145  
Woodruff SC 29388-0145  
(803) 476-6139 FAX: (803) 476-2145  
1-800-874-6598



BID NO. 94-16  
(Use this number on envelopes & all related correspondence)

BID FORM  
PURCHASING DEPARTMENT  
ST MAIN STREET  
A, S.C. 29691

The FIREMART submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	
3	Pairs Globe trousers.....	\$146 <sup>00</sup>	\$438 <sup>00</sup>	See Supplement
5	Pairs Globe bib pants w/suspenders..	\$245 <sup>00</sup>	\$1225 <sup>00</sup>	" "
11	Pairs Astra bib pants w/suspenders..	N/B	N/B	
9	Pairs BG pants Janesville bunker....	\$146 <sup>00</sup>	\$1314 <sup>00</sup>	
9	Bunker coats 7.5 oz Janesville.....	\$234 <sup>00</sup>	\$2106 <sup>00</sup>	
4	Coats Globe 35" .....	\$218 <sup>00</sup>	\$872 <sup>00</sup>	See Supplement
5	Coats short GX-7 Globe.....	\$299 <sup>00</sup>	\$1495.00	" "
11	Coats Globe Astra style.....	N/B	N/B	
10	Pairs suspenders.....	\$13 <sup>00</sup>	\$130 <sup>00</sup>	See Supplement
12	Pairs Servus driver boots.....			
59	Fire Dex long flash hoods.....			
24	Bullard PX2192 helmets complete.....			
49	Pairs gloves heavy duty.....			
100'	Section of 5" hose w/storz couplings			
1	4 1/2" x 5" double female adaptor...			
4	SL45 Streamlights basic system.....			
1	2 1/2" Gate & Hydræ valve screw....			
4	10" sections 5" flex suction hose...			
200'	1 3/4" hose HFX Snaptite.....			
31	Super Pass alarm Model SP1.....			
3	#1723P Akron turbo jet nozzle mid...			
4	Walk-away brackets for Scott air pk.			
1	Salvage cover - red heavy duty.....			
2	Bunker gear bags jumbo.....			
1	Hooligan tool 30".....			
1	2.5 inlet and tube apron foam set...			
2	Air tanks Scott 30 min PSI ltwtg....			

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	
3	Pairs Globe trousers.....	\$146 <sup>00</sup>	\$438 <sup>00</sup>	See Supplement
5	Pairs Globe bib pants w/suspenders..	\$245 <sup>00</sup>	\$1225 <sup>00</sup>	" "
11	Pairs Astra bib pants w/suspenders..	N/B	N/B	
9	Pairs BG pants Janesville bunker....	\$146 <sup>00</sup>	\$1314 <sup>00</sup>	
9	Bunker coats 7.5 oz Janesville.....	\$234 <sup>00</sup>	\$2106 <sup>00</sup>	
4	Coats Globe 35" .....	\$218 <sup>00</sup>	\$872 <sup>00</sup>	See Supplement
5	Coats short GX-7 Globe.....	\$299 <sup>00</sup>	\$1495.00	" "
11	Coats Globe Astra style.....	N/B	N/B	
10	Pairs suspenders.....	\$13 <sup>00</sup>	\$130 <sup>00</sup>	See Supplement
12	Pairs Servus driver boots.....			
59	Fire Dex long flash hoods.....			
24	Bullard PX2192 helmets complete.....			
49	Pairs gloves heavy duty.....			
100'	Section of 5" hose w/storz couplings			
1	4 1/2" x 5" double female adaptor...			
4	SL45 Streamlights basic system.....			
1	2 1/2" Gate & Hydrae valve screw....			
4	10" sections 5" flex suction hose...			
200'	1 3/4" hose HFX Snaptite.....			
31	Super Pass alarm Model SP1.....			
3	#1723P Akron turbo jet nozzle mid...			
4	Walk-away brackets for Scott air pk.			
1	Salvage cover - red heavy duty.....			
2	Bunker gear bags jumbo.....			
1	Hooligan tool 30".....			
1	2.5 inlet and tube apron foam set...			
2	Air tanks Scott 30 min PSI ltwtg....			
1	Akron burst hose jacket.....			
3	#470 spanner & hydrant wrench set...			
50	Ltwtg universal spanner wrenches....			

Bid shall include delivery to location stated on Bid Notice.  
 Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: 7-9 Weeks From Date of Order  
 BIDDING ORGANIZATION FIREMART  
 ADDRESS: P.O. BOX 145  
 CITY, STATE, ZIP CODE Woodruff SC 29388  
 SIGNATURE OF BIDDERS REPRESENTATIVE Walter T. Dan  
 TITLE OWNER  
 DATE Nov. 14 1994

BID NO. 94-16  
 (Use this number on envelopes & all related correspondence)

BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALHALLA, S.C. 29691

The FIREMART submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	
3	Pairs Globe trousers.....			
5	Pairs Globe bib pants w/suspenders..			
11	Pairs Astra bib pants w/suspenders..			
9	Pairs BG pants Janesville bunker....			
9	Bunker coats 7.5 oz Janesville.....			
4	Coats Globe 35" .....			
5	Coats short GX-7 Globe.....			
11	Coats Globe Astra style.....			
10	Pairs suspenders.....			
12	Pairs Servus driver boots.....	\$56 <sup>95</sup>		See Supplement
59	Fire Dex long flash hoods.....	\$14 <sup>30</sup>	\$843 <sup>70</sup>	" "
24	Bullard PX2192 helmets complete.....	\$89 <sup>80</sup>	\$2155 <sup>20</sup>	" "
49	Pairs gloves heavy duty.....	\$25 <sup>50</sup>	\$1249 <sup>50</sup>	" "
100'	Section of 5" hose w/storz couplings	\$499 <sup>00</sup>	\$499 <sup>00</sup>	
1	4 1/2" x 5" double female adaptor...	\$124 <sup>50</sup>	\$124 <sup>50</sup>	
4	SL45 Streamlights basic system.....	\$84 <sup>97</sup>	\$339 <sup>88</sup>	
1	2 1/2" Gate & Hydræ valve screw....	\$218 <sup>00</sup>	\$218 <sup>00</sup>	
4	10" sections 5" flex suction hose...	\$279 <sup>00</sup>	\$1116 <sup>00</sup>	
200'	1 3/4" hose HFX Snaptite.....	\$109 <sup>00</sup>	\$436 <sup>00</sup>	
31	Super Pass alarm Model SP1.....	N/B	N/B	
3	#1723P Akron turbo jet nozzle mid...	\$449 <sup>00</sup>	\$1347 <sup>00</sup>	
4	Walk-away brackets for Scott air pk.	\$36 <sup>00</sup>	\$144 <sup>00</sup>	
1	Salvage cover - red heavy duty.....	\$89 <sup>00</sup>	\$89 <sup>00</sup>	
2	Bunker gear bags jumbo.....	\$39 <sup>00</sup>	\$78 <sup>00</sup>	
1	Hooligan tool 30".....	\$105 <sup>00</sup>	\$105 <sup>00</sup>	
1	2.5 inlet and tube apron foam set...	\$720 <sup>00</sup>	\$720 <sup>00</sup>	
2	air tanks Scott 30 min PST ltwt	N/B	N/B	

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	
3	Pairs Globe trousers.....			
5	Pairs Globe bib pants w/suspenders..			
11	Pairs Astra bib pants w/suspenders..			
9	Pairs BG pants Janesville bunker....			
9	Bunker coats 7.5 oz Janesville.....			
4	Coats Globe 35" .....			
5	Coats short GX-7 Globe.....			
11	Coats Globe Astra style.....			
10	Pairs suspenders.....			
12	Pairs Servus driver boots.....	\$56 <sup>95</sup>		See Supplement
59	Fire Dex long flash hoods.....	\$14 <sup>30</sup>	\$843 <sup>70</sup>	" "
24	Bullard PX2192 helmets complete.....	\$89 <sup>80</sup>	\$2155 <sup>20</sup>	" "
49	Pairs gloves heavy duty.....	\$25 <sup>50</sup>	\$1249 <sup>50</sup>	" "
100'	Section of 5" hose w/storz couplings	\$499 <sup>00</sup>	\$499 <sup>00</sup>	
1	4 1/2" x 5" double female adaptor...	\$124 <sup>50</sup>	\$124 <sup>50</sup>	
4	SL45 Streamlights basic system.....	\$84 <sup>97</sup>	\$339 <sup>88</sup>	
1	2 1/2" Gate & Hydrae valve screw....	\$218 <sup>00</sup>	\$218 <sup>00</sup>	
4	10" sections 5" flex suction hose...	\$279 <sup>00</sup>	\$1116 <sup>00</sup>	
200'	1 3/4" hose HFX Snaptite.....	\$109 <sup>00</sup>	\$436 <sup>00</sup>	
31	Super Pass alarm Model SP1.....	N/B	N/B	
3	#1723P Akron turbo jet nozzle mid...	\$449 <sup>00</sup>	\$1347 <sup>00</sup>	
4	Walk-away brackets for Scott air pk.	\$36 <sup>00</sup>	\$144 <sup>00</sup>	
1	Salvage cover - red heavy duty.....	\$89 <sup>00</sup>	\$89 <sup>00</sup>	
2	Bunker gear bags jumbo.....	\$39 <sup>00</sup>	\$78 <sup>00</sup>	
1	Hooligan tool, 30".....	\$105 <sup>00</sup>	\$105 <sup>00</sup>	
1	2.5 inlet and tube apron foam set...	\$720 <sup>00</sup>	\$720 <sup>00</sup>	
2	Air tanks Scott 30 min PSI ltwtg....	N/B	N/B	
1	Akron burst hose jacket.....	\$299 <sup>00</sup>	\$299 <sup>00</sup>	
3	#470 spanner & hydrant wrench set...	\$49 <sup>00</sup>	\$49 <sup>00</sup>	See Supplement
50	Ltwtg universal spanner wrenches....	\$6 <sup>70</sup>	\$335 <sup>00</sup>	

Bid shall include delivery to location stated on Bid Notice.  
 Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: 2-4 Weeks From Date of Order

BIDDING ORGANIZATION FIREMART

ADDRESS: P.O. BOX 145

CITY, STATE, ZIP CODE Woodruff SC 29388

SIGNATURE OF BIDDERS REPRESENTATIVE

Walter T. Davis

TITLE

OWNER

DATE

Nov. 14, 1994

TELEPHONE

800 874-6598

BID SUPPLEMENTAL FORM

OCONEE COUNTY

PURCHASING DEPARTMENT

201 West Main Street

WALHALLA, SOUTH CAROLINA 29691

DATE 11/14/94

BID NO. 94-16

- Item 1 Bid Are Janesville BG To Meet Specs.
- Item 2 Bid Are Quaker QS-107 Which Is A  
Globe GX-7 Clone To Meet Specs.
- Item 4 Bid Are Janesville BG 197128 To Meet Specs.
- Item 7 Bid Are Quaker QS-107 Which Is A  
Globe GX-7 Clone To Meet Specs.
- Item 9 Bid Are For Traditional Style Pants,  
Spec Did Not Say What Type Pant.

BID SUPPLEMENTAL FORM

OCONEE COUNTY

PURCHASING DEPARTMENT

201 West Main Street

WALHALLA, SOUTH CAROLINA 29691

DATE 11/14/94

BID NO. 94-16

Item 10 Bid Are Serious # 11407 Driver Boots  
#5124 Not shown In Current Catalog.

Item 11 Bid Are Quaker Long Nomex Hoods To  
Meet Specs.

Item 12 Bid Are Bullard PX 2192 w/ 4" shield  
Bid Did No Spec what size shield

~~Item 20 Bid Are Firefighter III JOSHUA GARDNER~~

Item 29 Bid I South Park Corp Set To Meet Specs.



JERRY STEVENS  
1000 E. Union Street  
Morganton, NC 28655

Office: (800) 895-2802  
Pager: (800) 712-2621  
Home: (704) 754-1031

BID FORM  
CITY PURCHASING DEPARTMENT  
101 WEST MAIN STREET  
MORGANTON, S.C. 29691

BID NO. 94-16  
(Use this number on envelopes & all related correspondence)

The STEVENS FIRE EQUIPMENT COMPANY submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....	143.00	429.00
5	Pairs Globe bib pants w/suspenders..	302.00	1510.00
11	Pairs Astra bib pants w/suspenders..	236.00	2596.00
9	Pairs BG pants Janesville bunker....	143.00	1287.00
9	Bunker coats 7.5 oz Janesville.....	196.00	1764.00
4	Coats Globe 35" .....	196.00	784.00
5	Coats short GX-7 Globe.....	288.00	1440.00
11	Coats Globe Astra style.....	254.00	2794.00
10	Pairs suspenders.....	13.90	139.00
12	Pairs Servus driver boots.....	59.90	718.80
59	Fire Dex long flash hoods.....	10.71	631.89
24	Bullard PX2192 helmets complete.....	86.00	2064.00
49	Pairs gloves heavy duty.....	20.65	1011.85
100'	Section of 5" hose w/storz couplings	495.00	495.00
1	4 1/2" x 5" double female adaptor...	192.00	192.00
4	SL45 Streamlights basic system.....	82.00	328.00
1	2 1/2" Gate & Hydrae valve screw....	189.90	189.90
4	10" sections 5" flex suction hose...	302.00	1208.00
200'	1 3/4" hose HFX Snaptite.....	240.00	480.00
31	Super Pass alarm Model SP1.....	105.00	3255.00
3	#1723P Akron turbo jet nozzle mid...	396.00	1188.00
4	Walk-away brackets for Scott air pk.	29.00	116.00
1	Salvage cover - red heavy duty.....	15.00	15.00
2	Bunker gear bags jumbo.....	28.00	56.00
1	Hooligan tool 30".....	106.00	106.00
1	2.5 inlet and tube apron foam set...	283.00	283.00
2	Air tanks Scott 30 min PSI ltwtg....	298.00	596.00

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....	143.00	429.00
5	Pairs Globe bib pants w/suspenders..	302.00	1510.00
11	Pairs Astra bib pants w/suspenders..	236.00	2596.00
9	Pairs BG pants Janesville bunker....	143.00	1287.00
9	Bunker coats 7.5 oz Janesville.....	196.00	1764.00
4	Coats Globe 35" .....	196.00	784.00
5	Coats short GX-7 Globe.....	288.00	1440.00
11	Coats Globe Astra style.....	254.00	2794.00
10	Pairs suspenders.....	13.90	139.00
12	Pairs Servus driver boots.....	59.90	718.80
59	Fire Dex long flash hoods.....	10.71	631.89
24	Bullard PX2192 helmets complete.....	86.00	2064.00
49	Pairs gloves heavy duty.....	20.65	1011.85
100'	Section of 5" hose w/storz couplings	495.00	495.00
1	4 1/2" x 5" double female adaptor...	192.00	192.00
4	SL45 Streamlights basic system.....	82.00	328.00
1	2 1/2" Gate & Hydræ valve screw....	189.90	189.90
4	10" sections 5" flex suction hose...	302.00	1208.00
200'	1 3/4" hose HFX Snaptite.....	240.00	480.00
31	Super Pass alarm Model SP1.....	105.00	3255.00
3	#1723P Akron turbo jet nozzle mid...	396.00	1188.00
4	Walk-away brackets for Scott air pk.	29.00	116.00
1	Salvage cover - red heavy duty.....	15.00	15.00
2	Bunker gear bags jumbo.....	28.00	56.00
1	Hooligan tool 30".....	106.00	106.00
1	2.5 inlet and tube apron foam set...	283.00	283.00
2	Air tanks Scott 30 min PSI ltwtg....	298.00	596.00
1	Akron burst hose jacket.....	362.00	362.00
3	#470 spanner & hydrant wrench set...	41.00	123.00
50	Ltwtg universal spanner wrenches....	6.97	348.50

Bid shall include delivery to location stated on Bid Notice.  
 Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: MAXIMUM 90 DAY DELIVERY  
 BIDDING ORGANIZATION STEVENS FIRE EQUIPMENT/NAFECO OF NC  
 ADDRESS: P.O. BOX 1000 EAST UNION ST.  
 CITY, STATE, ZIP CODE MORGANTON, NC 28655

SIGNATURE OF BIDDERS REPRESENTATIVE *Jenny M. Stevens*  
 TITLE PRESIDENT  
 DATE 11-14-94

# LES AND SERVICE INC.

Formerly Harold's Sales & Service Inc.)  
 2750 McCollum Parkway  
 Kennesaw, Georgia 30144

BID NO. 94-16  
 (Use this number on envelopes & all related correspondence)

(404) 282-7941 • (800) 241-8081 • (404) 422-2777 • Fax: (404) 422-7381

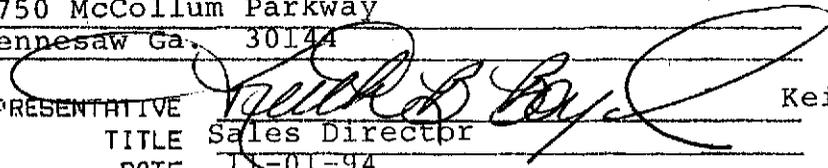
BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALHALLA, S.C. 29691

The VISTA SALES AND SERVICE INC. submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....	\$173.00	\$519.00
5	Pairs Globe bib pants w/suspenders.	\$211.00	\$1055.00
11	Pairs Astra bib pants w/suspenders.	\$211.00	\$2321.00
9	Pairs BG pants Janesville bunker...	No Bid	No Bid
9	Bunker coats 7.5 oz Janesville.....	No Bid	No Bid
4	Coats Globe 35" .....	247.00	\$988.00
5	Coats short GX-7 Globe.....	\$226.00	\$1130.00
11	Coats Globe Astra style.....	\$249.99	\$2739.00
10	Pairs suspenders.....	\$12.00	\$120.00
12	*Alternate: Ranger Mdl PG52* Pairs Servus driver boots.....	\$79.02	\$948.24
59	Fire Dex long flash hoods.....	\$15.79	\$931.61
24	Bullard PX2192 helmets complete....	\$96.70	\$2320.80
49	Pairs gloves heavy duty.....	\$18.80	\$921.20
100'	Section of 5" hose w/storz couplings	\$5.60'	\$560.00
1	4 1/2" x 5" double female adaptor..	\$145.00	\$145.00
4	SL45 Streamlights basic system.....	\$88.00	\$352.00
1	Elkhart X86A: 2 1/2" Gate & Hydræ valve screw...	\$198.00	\$198.00
4	10" sections 5" flex suction hose..	\$312.00	\$1248.00
200'	1 3/4" hose HFX Snaptite.....	\$2.52	\$504.00
31	**Alternate Bid: Detex PAL5* Super Pass alarm Model SPI.....	\$103.00	\$3193.00
3	#1723P Akron turbo jet nozzle mid.	\$408.00	\$1224.00
4	*Superior Walkaway Brkt W/PHStrap Walk-away brackets for Scott air pk.	\$41.00	\$164.00
1	Fold-a-Tank 10 oz. vinyl cover Salvage cover - red heavy duty.....	\$119.00	\$119.00
2	Fire Dex EBCRF1 Bunker gear bags Jumbo.....	\$30.38	\$60.76
1	Fire Hooks Unlimited PRO-BAR	\$135.00	\$135.00
1	Hooligan tool 30".....		
1	2.5 inlet and tube apron foam set	\$660.00	\$660.00
2	Air tanks Scott 30 min PSI ltwtg.	NO BID	NO BID

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
		\$173.00	\$519.00
3	Pairs Globe trousers.....		
5	Pairs Globe bib pants w/suspenders.	\$211.00	\$1055.00
		\$211.00	\$2321.00
11	Pairs Astra bib pants w/suspenders.		
9	Pairs BG pants Janesville bunker...	No Bid	No Bid
9	Bunker coats 7.5 oz Janesville.....	No Bid	No Bid
4	Coats Globe 35" .....	247.00	\$988.00
5	Coats short GX-7 Globe.....	\$226.00	\$1130.00
11	Coats Globe Astra style.....	\$249.99	\$2739.00
10	Pairs suspenders.....	\$12.00	\$120.00
12	*Alternate: Ranger Mdl PG52* Pairs Servus driver boots.....	\$79.02	\$948.24
59	Fire Dex long flash hoods.....	\$15.79	\$931.61
24	Bullard PX2192 helmets complete....	\$96.70	\$2320.80
49	Pairs gloves heavy duty.....	\$18.80	\$921.20
100'	Section of 5" hose w/storz couplings	\$5.60'	\$560.00
1	4 1/2" x 5" double female adaptor..	\$145.00	\$145.00
4	SL45 Streamlights basic system.....	\$88.00	\$352.00
1	Elkhart X86A; 2 1/2" Gate & Hydræ valve screw...	\$198.00	\$198.00
4	10" sections 5" flex suction hose..	\$312.00	\$1248.00
200'	1 3/4" hose HFX Snaptite.....	\$2.52	\$504.00
31	**Alternate Bid: Detex PAL5* Super Pass alarm Model SPI.....	\$103.00	\$3193.00
3	#1723P Akron turbo jet nozzle mid	\$408.00	\$1224.00
4	*Superior Walkaway Brkt W/PHStrap Walk-away brackets for Scott air pk	\$41.00	\$164.00
1	Fold-a-Tank 10 oz. vinyl cover Salvage cover - red heavy duty.....	\$119.00	\$119.00
2	Fire Dex EBCRF1 Bunker gear bags jumbo.....	\$30.38	\$60.76
1	Fire Hooks Unlimited PRO-BAR Hooligan tool 30".....	\$135.00	\$135.00
1	2.5 inlet and tube apron foam set	\$660.00	\$660.00
2	Air tanks Scott 30 min PSI ltwtg.	NO BID	NO BID
1	Akron burst hose jacket.....	\$287.00	\$287.00
3	#470 spanner & hydrant wrench set	\$72.00	\$216.00
50	Elkhart Model T-464 Ltwtg universal spanner wrenches....	\$9.40	\$470.00

Bid shall include delivery to location stated on Bid Notice.  
Show any exception, deviation, extra computation, or information on Bid  
Supplemental Form attached hereto.

Delivery Date: 30-90 days ARO  
BIDDING ORGANIZATION Vista Sales And Service Inc.  
ADDRESS: P.O. BOX 2750 McCollum Parkway  
CITY, STATE, ZIP CODE Kennesaw Ga. 30144  
SIGNATURE OF BIDDERS REPRESENTATIVE  Keith B. Boyd  
TITLE Sales Director  
DATE IX-01-94

BID NO. 94-16  
 (Use this number on envelopes & all related correspondence)

BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALHALLA, S.C. 29691

The Fire Tech submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

\*\*\* Freight and Taxes NOT included.

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	
3	Pairs Globe trousers.....	N/B		
5	Pairs Globe bib pants w/suspenders..	N/B		
11	Pairs Astra bib pants w/suspenders..	N/B		
9	Pairs BG pants Janesville bunker....	\$226.00	\$ 2034.00	Body Guard
9	Bunker coats 7.5 oz Janesville.....	\$347.00	\$ 3123.00	Body Guard
4	Coats Globe 35" .....	N/B		
5	Coats short GX-7 Globe.....	N/B		
11	Coats Globe Astra style.....	N/B		
10	Pairs suspenders.....	\$17.00	\$ 170.00	
12	Pairs Servus driver boots.....	N/B		
59	Fire Dex long flash hoods.....	\$17.00	\$ 1003.00	
24	Bullard PX2192 helmets complete.....	\$100.00	\$ 2400.00	
49	Pairs gloves heavy duty.....	\$24.00	\$ 1176.00	
100'	Section of 5" hose w/storz couplings	\$510.00	\$ 510.00	
1	4 1/2" x 5" double female adaptor...	\$103.00	\$ 103.00	
4	SL45 Streamlights basic system.....	\$100.00	\$ 400.00	
1	2 1/2" Gate & Hydrae valve screw....	\$229.00	\$ 229.00	
4	10" sections 5" flex suction hose...	\$275.00	\$ 1100.00	
200'	1 3/4" hose HFX Snaptite.....	\$2.30	\$ 460.00	
31	Super Pass alarm Model SP1.....	\$114.00	\$ 3534.00	
3	#1723P Akron turbo jet nozzle mid...	\$444.00	\$ 1332.00	
4	Walk-away brackets for Scott air pk.	\$70.00	\$ 280.00	
1	Salvage cover - red heavy duty.....	\$181.00	\$ 181.00	
2	Bunker gear bags jumbo.....	\$29.00	\$ 58.00	
1	Hooligan tool 30".....	\$140.00	\$ 140.00	
1	2.5 inlet and tube apron foam set...	\$558.00	\$ 558.00	
2	Air tanks Scott 30 min PSI ltwtg....	N/B		

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	
3	Pairs Globe trousers.....	N/B		
5	Pairs Globe bib pants w/suspenders..	N/B		
11	Pairs Astra bib pants w/suspenders..	N/B		
9	Pairs BG pants Janesville bunker....	\$226.00	\$ 2034.00	Body Guard
9	Bunker coats 7.5 oz Janesville.....	\$347.00	\$ 3123.00	Body Guard
4	Coats Globe 35" .....	N/B		
5	Coats short GX-7 Globe.....	N/B		
11	Coats Globe Astra style.....	N/B		
10	Pairs suspenders.....	\$17.00	\$ 170.00	
12	Pairs Servus driver boots.....	N/B		
59	Fire Dex long flash hoods.....	\$17.00	\$ 1003.00	
24	Bullard PX2192 helmets complete.....	\$100.00	\$ 2400.00	
49	Pairs gloves heavy duty.....	\$24.00	\$ 1176.00	
100'	Section of 5" hose w/storz couplings	\$510.00	\$ 510.00	
1	4 1/2" x 5" double female adaptor...	\$103.00	\$ 103.00	
4	SL45 Streamlights basic system.....	\$100.00	\$ 400.00	
1	2 1/2" Gate & Hydræ valve screw....	\$229.00	\$ 229.00	
4	10" sections 5" flex suction hose...	\$275.00	\$ 1100.00	
200'	1 3/4" hose HFX Snaptite.....	\$2.30'	\$ 460.00	
31	Super Pass alarm Model SP1.....	\$114.00	\$ 3534.00	
3	#1723P Akron turbo jet nozzle mid...	\$444.00	\$ 1332.00	
4	Walk-away brackets for Scott air pk.	\$70.00	\$ 280.00	
1	Salvage cover - red heavy duty.....	\$181.00	\$ 181.00	
2	Bunker gear bags jumbo.....	\$29.00	\$ 58.00	
1	Hooligan tool 30".....	\$140.00	\$ 140.00	
1	2.5 inlet and tube apron foam set...	\$558.00	\$ 558.00	
2	Air tanks Scott 30 min PSI ltwtg....	N/B		
1	AKron burst hose jacket.....	\$313.00	\$ 313.00	
3	#470 spanner & hydrant wrench set...	\$81.00	\$ 243.00	
50	Ltwtg universal spanner wrenches....	\$19.00	\$ 950.00	

Bid shall include delivery to location stated on Bid Notice.  
 Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: 30 - 120 Days  
 BIDDING ORGANIZATION Fire Tech  
 ADDRESS: P.O. BOX 1104-B N. Main St.  
 CITY, STATE, ZIP CODE Hendersonville, NC. 28792

SIGNATURE OF BIDDERS REPRESENTATIVE: Shirley Camp  
 TITLE Sec. Treas.  
 DATE November 15, 1994

BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALHALLA, S.C. 29691

The JACK L. SLAGGERS Fire Company submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department.

separate Sales Tax

22.94  
 44.68  
 112.42  
 68.83  
 108.23  
 45.79  
 6.25  
 126.61  
 6.70  
 36.42  
 44.25  
 130.02  
 58.80  
 27.55  
 5.21  
 16.85  
 9.37  
 59.40  
 25.40  
 152.68  
 60.90  
 0.00  
 4.40  
 3.50  
 5.60  
 31.95  
 25.10

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	
3	Pairs Globe trousers.....	152.95ea	458.85	
5	Pairs Globe bib pants w/suspenders..	178.73ea	893.65	
11	Pairs Astra bib pants w/suspenders..	204.40	2248.40	
9	Pairs BG pants Janesville bunker....	152.95ea	1376.55	GLOBE/Alternate
9	Bunker coats 7.5 oz Janesville.....	240.50ea	2164.50	Alternate Bid/Globe
4	Coats Globe 35" .....	228.96ea	915.84	
5	Coats short GX-7 Globe.....	253.00ea	1265.00	
11	Coats Globe Astra style.....	230.20ea	2532.20	
10	Pairs suspenders... GLOBE 800307T	13.40ea	134.00	
12	Pairs Servus driver boots... Alternate Bid RANGER NY07	60.70ea	728.40	
59	Fire Dex long flash hoods... Alternate Bid L.FELIXES L.NOMMRES	15.00pr	885.00	
24	Bullard PX2192 helmets complete... Alternate Bid Cairns 66084 Phoenix	108.35ea	2600.40	
49	Pairs gloves heavy duty... GLOVE CORPORATION FireFighter Glove	24.00pr	1176.00	
100'	Section of 5" hose w/storz couplings	551.00	551.00	National 14FM3
1	4 1/2" x 5" double female adaptor... Kocheck #35R	104.15ea	104.15	Rockerlug Double
4	SL45 Streamlights basic system.....	84.25ea	337.00	Streamlight
1	2 1/2" Gate & Hydrae valve screw....	187.35	187.35	ELKHART X-86B
4	10" sections 5" flex suction hose...	297.00ea	1188.00	Kocheck P505
200'	1 3/4" hose HFX Snaptite.....	2.54FT	508.00	National 14FM6
31	Super Pass alarm Model SPI.....	98.50ea	3053.50	LS-PALITT netex
3	#1723P Akron turbo jet nozzle mid...	406.00ea	1218.00	Bid Linky AKRON
4	Walk-away brackets for Scott air pk.	25.00ea	100.00	Ziamatic 26-KD-UN-6-F Foldatank SC12X18Red
1	Salvage cover - red heavy duty.....	88.00	88.00	Dupont cordura with reflective TA
2	Bunker gear bags jumbo... FI 33031R -> OUR BAG X-Large 16X18X24	35.00ea	70.00	Ziamatic 50B-300-C
1	Hooligan tool 30".....	112.00ea	112.00	Bidded Akron
1	2.5 inlet and tube apron foam set...	639.00ea	639.00	Bidded Scott
1	Scott 20 min PST 1twat	356.00ea	712.00	

separate Sales Tax

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	
22.94	3 Pairs Globe trousers.....	152.95ea	458.85	
44.68	5 Pairs Globe bib pants w/suspenders..	178.73ea	893.65	
112.42	11 Pairs Astra bib pants w/suspenders..	204.40	2248.40	
68.83	9 Pairs BG pants Janesville bunker....	152.95ea	1376.55	GLOBE/Alternate
108.23	9 Bunker coats 7.5 oz Janesville.....	240.50ea	2164.50	Alternate Bid/Globe
45.79	4 Coats Globe 35" .....	228.96ea	915.84	
6.25	5 Coats short GX-7 Globe.....	253.00ea	1265.00	
126.61	11 Coats Globe Astra style.....	230.20ea	2532.20	
6.70	10 Pairs suspenders.....	13.40ea	134.00	
36.42	12 Pairs Servus driver boots.....	60.70ea	728.40	
44.25	59 Fire Dex long flash hoods... LL NOMADRES	15.00pr	885.00	
130.02	24 Bullard PX2192 helmets complete Phoenix	108.35ea	2600.40	
58.80	49 Pairs gloves heavy duty... GLOVE CORPORATION	24.00pr	1176.00	
27.55	100' Section of 5" hose w/storz couplings	557.00	557.00	National 14FM3
5.21	1 4 1/2" x 5" double female adaptor... Koccheck #35A	104.15ea	104.15	Rockarlug Double
16.85	4 SL45 Streamlights basic system.....	84.25ea	337.00	Streamlight
9.37	1 2 1/2" Gate & Hydras valve screw....	187.35	187.35	ELKHART X-86B
59.40	4 10" sections 5" flex suction hose...	297.00ea	1188.00	Koccheck P5051
25.40	200' 1 3/4" hose HFX Snaptite.....	2.54FT	508.00	National 14FM6
152.68	31 Super Pass alarm Model SP1.....	98.50ea	3053.50	LS-PAL III + netex
60.90	3 #1723P Akron turbo jet nozzle mid....	406.00ea	1218.00	Bid Linky Akron
4.00	4 Walk-away brackets for Scott air pk.	25.00ea	100.00	Ziamatic 26-KD-WN-6-F Foldatank SC12X18Red
4.40	1 Salvage cover - red heavy duty.....	88.00	88.00	Dupont cordura with reflective tape
3.50	2 Bunker gear bags jumbo. X-Large. 16X18X24	35.00ea	70.00	Ziamatic SPB-300-C
5.60	1 Hooligan tool 30".....	112.00ea	112.00	Bidded Akron
31.95	1 2.5 inlet and tube apron foam set...	639.00ea	639.00	Bidded Scott
35.60	2 Air tanks Scott 30 min PSI ltwtg....	356.00ea	712.00	Bidded Akron
14.35	1 Akron burst hose jacket Akron style #772	287.00	287.00	Bidding Redhead 148-3
8.23	3 #470 spanner & hydrant wrench set...	54.85ea	164.55	ELKHART T-464
24.63	50 Ltwtg universal spanner wrenches....	9.85	492.50	

Bid shall include delivery to location stated on Bid Notice. Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: 60 to 75 DAYS ARO ON GEAR 15 to 45 DAYS ARO on all other items.  
 BIDDING ORGANIZATION JACK, L. SLACLES Fire Equipment  
 ADDRESS: P.O. BOX P.O. BOX 2184  
 CITY, STATE, ZIP CODE Cayce, SC 29917

SIGNATURE OF BIDDERS REPRESENTATIVE Ronald Hurghies  
 TITLE South Carolina chroidesales Representative

BID SUPPLEMENTAL FORM

OCONEE COUNTY

PURCHASING DEPARTMENT

201 West Main Street

WALHALLA, SOUTH CAROLINA 29691

DATE

11/15/94

BID NO.

94-16

Alternate Bids - GLOBE line item # 4 & 5  
" " - Ranger 11407 line item # 10  
" " - Lifelines line item # 11  
" " - Cairns 660R Phweix # 12  
" " - National 14Fm6 - line item # 19 Flomster  
" " - Detex Corporation line item # 20 PALTT +  
" " - Redhead Corporation # 29 <sup>Line item</sup> # 148-3.

Signed

Ronald Humphries  
11/15/94

BID NO. 94-16  
 (Use this number on envelopes & all related correspondence)

BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALHALLA, S.C. 29691

The Asheville Fire & Safety Co., Inc. submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....		NO BID
5	Pairs Globe bib pants w/suspenders..		"
11	Pairs Astra bib pants w/suspenders..		"
9	Pairs BG pants Janesville bunker....		"
9	Bunker coats 7.5 oz Janesville.....		"
4	Coats Globe 35" .....		"
5	Coats short GX-7 Globe.....		"
11	Coats Globe Astra style.....		"
10	Pairs suspenders.....	14.00	140.00
12	Pairs Servus driver boots.....	85.00	1020.00
59	Fire Dex long flash hoods.....	20.00	1180.00
24	Bullard PX2192 helmets complete.....	105.00	2520.00
49	Pairs gloves heavy duty.....	28.00	1372.00
100'	Section of 5" hose w/storz couplings		540.00
1	4 1/2" x 5" double female adaptor...	192.00	192.00
4	SL45 Streamlights basic system.....	110.00	440.00
1	2 1/2" Gate & Hydræ valve screw....		260.00
4	10" sections 5" flex suction hose...	290.00	1160.00
200'	1 3/4" hose HFX Snaptite.....	3.14 ft	628.00
31	Super Pass alarm Model SP1.....	110.00	3410.00
or	PAL III ALARM - MOTION DETECTOR	100.00	3100.00
3	#1723P Akron turbo jet nozzle mid...	457.00	1371.00
4	Walk-away brackets for Scott air pk.	70.00	280.00
1	Salvage cover - red heavy duty.....		120.00
2	Bunker gear bags jumbo.....	34.00	68.00
1	Hooligan tool 30".....		105.00
1	2.5 inlet and tube apron foam set...		725.00
2	Air tanks Scott 30 min PSI ltwtg....	335.00	670.00

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers.....		NO BID
5	Pairs Globe bib pants w/suspenders..		"
11	Pairs Astra bib pants w/suspenders..		"
9	Pairs BG pants Janesville bunker....		"
9	Bunker coats 7.5 oz Janesville.....		"
4	Coats Globe 35" .....		"
5	Coats short GX-7 Globe.....		"
11	Coats Globe Astra style.....		"
10	Pairs suspenders.....	14.00	140.00
12	Pairs Servus driver boots.....	85.00	1020.00
59	Fire Dex long flash hoods.....	20.00	1180.00
24	Bullard PX2192 helmets complete.....	105.00	2520.00
49	Pairs gloves heavy duty.....	28.00	1372.00
100'	Section of 5" hose w/storz couplings		540.00
1	4 1/2" x 5" double female adaptor...	192.00	192.00
4	SL45 Streamlights basic system.....	110.00	440.00
1	2 1/2" Gate & Hydrae valve screw....		260.00
4	10" sections 5" flex suction hose...	290.00	1160.00
200'	1 3/4" hose HFX Snaptite.....	3.14 ft	628.00
31	Super Pass alarm Model SP1.....	110.00	3410.00
or	PAL III ALARM - MOTION DETECTOR	100.00	3100.00
3	#1723P Akron turbo jet nozzle mid...	457.00	1371.00
4	Walk-away brackets for Scott air pk.	70.00	280.00
1	Salvage cover - red heavy duty.....		120.00
2	Bunker gear bags jumbo.....	34.00	68.00
1	Hooligan tool 30".....		105.00
1	2.5 inlet and tube apron foam set...		725.00
2	Air tanks Scott 30 min PSI ltwtg....	335.00	670.00
1	Akron burst hose jacket.....		350.00
3	#470 spanner & hydrant wrench set...	65.00	195.00
50	Ltwtg universal spanner wrenches....	9.00	450.00

Bid shall include delivery to location stated on Bid Notice.  
Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: 30 to 60 days

BIDDING ORGANIZATION Asheville Fire & Safety co., Inc.

ADDRESS: P.O. BOX 2626

CITY, STATE, ZIP CODE Asheville, NC 28802

SIGNATURE OF BIDDERS REPRESENTATIVE

*Russell Pinchart*

TITLE

*President*

DATE

*11-16-94*

TELEPHONE

*704-253-1197*

BID FORM  
 OCONEE COUNTY PURCHASING DEPARTMENT  
 201 WEST MAIN STREET  
 WALKALLA, S.C. 29691

The Zimmerman Evans Inc. submits herewith our Bid in response to bid request number shown above, and in compliance with the description(s) and/or specification(s) attached hereto for fire fighting equipment for the Rural Fire Department

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers. <i>Janesville 2EMP</i>	144,00	432,00
5	Pairs Globe bib pants w/suspenders. <i>Janesville</i>	210,00	1050,00
11	Pairs Astra bib pants w/suspenders..	210,00	2310,00
9	Pairs BG pants Janesville bunker....	134,00	1,206,00
9	Bunker coats 7.5 oz Janesville.....	238,00	2,142,00
4	Coats Globe 35" .....	238,00	952,00
5	Coats short GX-7 Globe. <i>Janesville</i>	203,00	1015,00
11	Coats Globe Astra style.....	203,00	2,233,00
10	Pairs suspenders..... <i>S-100</i>	9,00	90,00
12	Pairs Servus driver boots.. <i>11407</i>	67,00	804,00
59	Fire Dex long flash hoods.. <i>7131</i>	17,00	1003,00
24	Bullard PX2192 helmets complete.....	98,00	2,352,00
49	Pairs gloves heavy duty. <i>#33,00</i>	13,00	637,00
100'	section of 5" hose w/storz couplings	6,11 FT	611,00
1	4 1/2" x 5" double female adaptor...	220,00	220,00
4	SL45 Streamlights basic system.....	99,00	396,00
1	2 1/2" Gate & Hydrae valve screw....	200,00	200,00
4	10" sections 5" flex suction hose...	310,00	1240,00
200'	1 3/4" hose HFX Snaptite.....	3,48 FT	696,00
31	Super Pass alarm Model SP1 <i>Model Only</i>	99,00	3,069,00
3	#1723P Akron turbo jet nozzle mid...	442,00	1326,00
4	Walk-away brackets for Scott air pk.	40,00	160,00
1	Salvage cover - red heavy duty.....	91,00	91,00
2	Bunker gear bags jumbo.....	32,00	64,00
1	Hooligan tool 30".....	122,00	122,00
1	2.5 inlet and tube apron foam set...	240,00	240,00
2	Air tanks Scott 30 min PSI ltwtg....	375,00	750,00
1	Akron burst hose jacket. <i>772</i>	311,00	311,00

X 5% Sales Tax

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
3	Pairs Globe trousers... <sup>Janesville</sup> 2 ENP	144,00	432,00
5	Pairs Globe bib pants w/suspenders... <sup>Janesville</sup>	210,00	1050,00
11	Pairs Astra bib pants w/suspenders..	210,00	2310,00
9	Pairs BG pants Janesville bunker....	134,00	1,206,00
9	Bunker coats 7.5 oz Janesville.....	238,00	2,142,00
4	Coats Globe 35" .....	238,00	952,00
5	Coats short GX-7 Globe... <sup>Janesville</sup>	203,00	1015,00
11	Coats Globe Astra style.....	203,00	2,233,00
10	Pairs suspenders..... <sup>S-100</sup>	9,00	90,00
12	Pairs Servus driver boots... 11407	67,00	804,00
59	Fire Dex long flash hoods... 7131	17,00	1003,00
24	Bullard PX2192 helmets complete.....	98,00	2,352,00
49	Pairs gloves heavy duty... <sup># 33,00</sup>	13,00	637,00
100'	Section of 5" hose w/storz couplings	6,11 FT	611,00
1	4 1/2" x 5" double female adaptor...	220,00	220,00
4	SL45 Streamlights basic system.....	99,00	396,00
1	2 1/2" Gate & Hydrae valve screw....	200,00	200,00
4	10" sections 5" flex suction hose...	310,00	1240,00
200'	1 3/4" hose HFX Snaptite.....	3,48 FT	696,00
31	Super Pass alarm Model SP1 <sup>Model Only</sup>	99,00	3,069,00
3	#1723P Akron turbo jet nozzle mid...	442,00	1326,00
4	Walk-away brackets for Scott air pk.	40,00	160,00
1	Salvage cover - red heavy duty.....	91,00	91,00
2	Bunker gear bags jumbo.....	32,00	64,00
1	Hooligan tool 30".....	122,00	122,00
1	2.5 inlet and tube apron foam set...	240,00	240,00
2	Air tanks Scott 30 min PSI ltwtg....	375,00	750,00
1	Akron burst hose jacket... 772	311,00	311,00
3	#470 spanner & hydrant wrench set...	61,00	183,00
50	Ltwtg universal spanner wrenches....	11,00	550,00

Bid shall include delivery to location stated on Bid Notice. Show any exception, deviation, extra computation, or information on Bid Supplemental Form attached hereto.

Delivery Date: 6 to 8 Week ARO

BIDDING ORGANIZATION Zinnaman & Evans Inc.

ADDRESS: P.O. BOX P.O. Box 38006

CITY, STATE, ZIP CODE Greenboro, NC 27214

SIGNATURE OF BIDDERS REPRESENTATIVE [Signature]

TITLE Sr. Rtd

DATE 11/1/94

TELEPHONE 1-800-334-9674

BID SUPPLEMENTAL FORM

OCONEE COUNTY

PURCHASING DEPARTMENT

201 West Main Street

WALHALLA, SOUTH CAROLINA 29691

Item #1 We have bid Janesville, see attached literature.

Item #2 We have bid Janesville.

Item #3 We have bid Janesville.

Items 6, 7, & 8 We have bid Janesville

Item #10 We have bid NFPA/OSHA approved Black Diamond Fire Boots. NO Driver Boot is NFPA/OSHA approved because they must be 15-1/2" tall.

Item #19 We have bid Imperial Fire Hose.

Item #20 We have bid PAL III Motion Detectors.

FREIGHT CHARGES - \$100.00

DATE 11-14-94

BID NO. 94-16

OCONEE COUNTY BID TABULATION

BID FOR: Modifications to roof and chimneys at Lunney Museum DATE: October 19, 1994

BID NO: 94-11 LOCATION: Walhalla, SC TIME: 2:00 p.m.

BIDDERS	K-Mac Services, Inc.	Richard Contracting	Roofco, Inc.	Marshall G. Smith	
Lump Sum Base Price	\$32,598.00	No bid	No bid	No bid	

**ATTENDING OPENING:** Nancy Clayton - Project Manager; Jim Smith - Public Buidlings; Marianne Dillard & Jenny Peay - Purchasing

BID NO. 94-11  
(Use this number on  
envelope & all re-  
lated correspondence.)

BID FORM  
OCONEE COUNTY PURCHASING DEPARTMENT  
201 WEST MAIN STREET, WALHALLA, SC 29691

The K-MAC SERVICES INC submits  
herewith our Bid in response to bid request number shown above, and in  
compliance with the description(s) and/or specification(s) attached  
hereto for modifications to roof and chimneys at Lunney Museum.

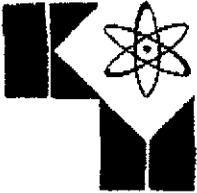
The Bidder having visited and examined the site and having  
carefully studied the specifications, and drawings for the project,  
does hereby propose to furnish all labor, mechanics, superintendence,  
tools, materials, transportations and service necessary to perform and  
complete said work, and work incidental thereto, in a workmanlike  
manner, as described in said drawings and specifications, including  
Addenda issued thereto, in accordance with the prices hereinafter set  
forth. The Bidder, by virtue of this proposal, acknowledges receipt of  
all Addenda.

1.	Structural Masonry (chimney rebuilding).....	\$ 17,600.00
2.	Structural Metals (crickets, flashings, etc.)..	500.00
3.	Structural Carpentry (cricket structure, etc)...	1,973.00
4.	Non-structural Carpentry (soffits, fascia, ceiling board, etc.).....	2,900.00
5.	Roof Structure (roof deck, etc.).....	1,600.00
6.	Roofing materials (shingles, etc.).....	3,600.00
7.	Soffits and Ridge Vents.....	1,575.00
8.	Exterior Walls and Eaves (shingles and soffits, etc.).....	1,900.00
9.	Exterior Finishes (paint and stains, etc.)....	950.00
10.	Other Work (specify).....	0.00
	LUMP SUM BASE PRICE (Total of #1-10).....	\$ 32,598.00

Bid shall include delivery to location stated on Bid Notice. Show any  
exception, deviation, extra computation, or information on Bid  
Supplemental Form attached hereto.

Delivery Date: 10/19/94  
BIDDING ORGANIZATION: K-MAC SERVICES INC  
ADDRESS: P. O. BOX: PO BOX 369  
CITY, STATE, ZIP CODE: SENECA SC 29679

SIGNATURE OF BIDDERS REPRESENTATIVE W. O. King, Jr  
TITLE VICE PRESIDENT  
DATE 10/19/94 TELEPHONE (803)882-0555



**K-MAC SERVICES, INC.**

**803-882-0555**

**P. O. BOX 369**

**SENECA, S.C. 29679-0369**

November 14, 1994

Attn: Marianne Dillard  
 Oconee County Purchasing Department  
 208 Broker Dr  
 Walhalla, SC 29691

RE: Bid 94-11

Dear Marianne,

The following is the add-on information for the Lunney Museum:

Cooper Flashing	\$ 200.00
Modified Roll Roof	\$ 300.00
	-----
Total	\$ 500.00
	=====

If you have any questions or need additional information, please let me know.

Sincerely,

William G. King

Post-It™ brand fax transmittal memo 7671		# of pages »
To: <i>Jeanie Peay</i>	From: <i>William King</i>	
Co: <i>Oconee Purchasing</i>	Co: <i>K-MAC</i>	
Dept:	Phone #	
Fax # <i>1038-4142</i>	Fax # <i>882-1845</i>	

Nancy M. Clayton  
Oconee County Museum Assoc.  
The Lunney Museum  
211 W. South 1st Street  
Seneca, S.C. 29678

21 November, 1994

County Council  
c/o. Oconee County Purchasing Department  
201 West Main Street  
Walhalla, S.C. 29691

Members of County Council,

We have recently completed the bidding process for the Modification of Roof and Chimneys of the Lunney Museum. We received one bid for this job from K-Mac Services of Seneca, and we would like to enter into a contract with them for the work.

The lump sum total cost quoted by K-Mac has exceeded our available funds, but tasks are itemized on the bid form, allowing us to prioritize the work, and to phase what is not immediately affordable.

The scope of the work calls for the installation of crickets and flashing at the chimneys, reroofing certain areas, the installation of ridge vents and soffits, and finish work. These items are needed immediately to correct persistent leaking problems. They are listed as items 2-10 of the bid form, costing \$14,998.00 (less than half of the total of \$32,598.00).

In addition, we had specified the rebuilding of four chimneys. This task appeared as item #1 on the bid form, costing \$17,600.00 on the K-Mac bid (more than half of the lump sum total cost). Because of the high cost to rebuild, our local architectural consultants Martin Davis, Zach Watson Rice and John Tucker, our advisor with the Department of Archives and History, have reconsidered this recommendation. After once again physically inspecting the chimneys, they have determined that repointing will be a suitable alternative that will actually conserve the original materials better than rebuilding. This can be undertaken as a second phase to the roofing modifications, allowing us to seek additional grant money for this purpose.

We propose to enter into a contract with K-Mac for items 2-10 of the bid form. We wish to delete item #1, chimney rebuilding. All

the remaining items pertain to the roofing modifications previously described. The lump sum base price of these items is \$14,998.00.

We have funding available from three sources to pay for this work. Our grant support from the Department of Archives and History is for \$5000.00. We have \$5000.00 available in the capital improvement account of the Museum, and the Oconee County Museum Association will provide \$5000.00 initially (some of which may be refunded if grant support can be increased).

In addition, the Museum Association will provide \$500.00 to pay the cost of two anticipated materials substitutions that do not change the scope of the work. K-Mac has given us a firm price for substituting copper flashing for aluminum at the chimney crickets, and for substituting modified bitumen polyester matt roofing for roll roofing at the east and west porch wings. These substitutions are deemed necessary for technical reasons, and they will be made in the form of a change order after the contract has been signed.

We request your approval to accept the bid of K-Mac services for items 2-10 of the bid form. We also request approval to allocate an additional \$500.00 for the materials substitutions described.

Thank you for your consideration of this important matter.

Sincerely,



Nancy M. Clayton  
Project Manager

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11-28-94

FAXED MAD  
9 H. 722

*Work Copy*

**HDR**

November 23, 1994

Mr. Norman Crain  
Oconee County Supervisor  
208 Booker Drive  
Walhalla, SC 29691

Re: Vertical Expansion Resubmittal - Seneca Landfill  
HDR Project No. 7488-001-018

Dear Mr. Crain:

The purpose of this letter is to advise you of the additional work being requested by DHEC in order to complete the Vertical Expansion Permit for the Seneca Landfill and to ask for your direction on how to proceed in this regard.

On June 27, 1994, the County contracted with HDR to update and resubmit the "Vertical Expansion Engineering Design Report" previously prepared for the County. This work included revisions of all drawings and an update of the numerical information contained in the application to reflect the new closure date. The Vertical Expansion Engineering Design report was updated and submitted to SC DHEC on July 22, 1994.

On August 31, 1994, a letter was sent from Ms. Veronica Gorman of SC DHEC to Mr. Jack Hirst requesting that additional information be included with the Vertical Expansion Report. (This document is provided as Attachment A). This information was not required or included in previous Vertical Expansion Reports prepared by HDR and approved by SC DHEC.

As indicated in Mr. Joe Reading's letter to the County dated June 13, 1994, HDR's scope for revising the Vertical Expansion Permit application included the "revision of all drawings including plan views and cross-sections, and an update of the numerical information contained in the application to reflect the new date." The scope did not include the preparation of the additional plans and reports now being requested by DHEC.

The additional information now requested by DHEC includes the preparation of a Operational Plan, and Operations and Maintenance Report and a Contingency Plan, as well as expansions of the Report sections on Groundwater Monitoring and Closure and Post Closure Criteria.

HDR estimates that the request by SC DHEC for additional information could require up to 40 hours of additional staff work. This could be handled through a purchase order for services to be charged on a per hour, cost-incurred, basis with an amount not to exceed \$4,000.

We would appreciate your direction regarding the County's desire for additional services with respect to DHEC's request. If you have any questions or need additional information in this regard, please call me at (704) 338-6718.

Respectfully Submitted,

**HDR Engineering, Inc.**

*Jeremy K. O'Brien*

Jeremy K. O'Brien, P.E.  
Project Manager

**HDR Engineering, Inc.**

Suite 1400  
128 S. Tryon Street  
Charlotte, North Carolina  
28202-5001

Telephone  
704 338-1800

August 31, 1994

Mr. Jack M. Hirst, Solid Waste Director  
Oconee County Health and Sanitation Commission  
208 Booker Drive  
Walhalla, SC 29691

RE: Seneca Landfill Vertical Expansion, DWP-041  
Oconee County

Dear Mr. Hirst:

Our office acknowledges receipt of the vertical expansion report, dated July 1994.

The following guideline will be helpful as the county proceeds with the permitting process of the vertical expansion request dated January 1994. Please use the following as a guide for sections of the regulation that will need to be addressed:

- Subpart A  
Any applicable sections
- Subpart B  
Any applicable sections
- Subpart C  
All sections
- Subpart D  
Not applicable
- Subpart E  
All sections
- Subpart F  
All sections
- Subpart G  
Will not be applicable until 1995

RECEIVED

SEP 6 1994

HDR  
CHARLOTTE, N.C.

Mr. Jack M. Hirst  
August 31, 1994  
Page 2 of 2

Subpart H

Applicable sections particularly the following:

Section 258.82

Section 258.85 (for closure only)

Section 258.86

Section 258.87

Subparts I-N

If you have any questions or comments, please contact me at (803) 734-5117.

Sincerely,

*Veronica M. Gorman*

Veronica M. Gorman

VMG/pej

CC: Richard Phillips, App I-EQC  
Joe Reading, HDR  
Kim Tappa, BSHWM

November 23, 1994



Mr. Glenn Hart  
S.C. Registered Land Surveyor #6674  
266 Friendship Valley Road  
Seneca, SC 29678

Re: Oconee County MRF  
HDR Project No. 7488-001-018

Dear Mr. Hart:

On August 2, 1994, HDR Engineering requested your services to prepare a topographic survey of the site for the "Materials Recovery Facility (MRF)" being implemented by the County.

Since that time, we have made numerous attempts to contact you by phone to determine the status of your efforts and your anticipated completion date for the survey.

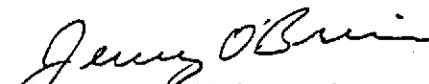
In addition, Mr. Jack Hirst, Solid Waste Director for Oconee County, has also contacted you. Based on these contacts, Mr. Hirst had indicated that the survey would be completed by late-September, 1994.

The continued delay in the completion of the site survey for the MRF is having a serious impact on the project schedule. If you cannot provide HDR with a completed survey per our August 2nd letter within the next two weeks, we will have to take action to disengage your services and procure surveying services from another source.

I would appreciate your timely response in indicating when the completed survey will be provided to HDR. I can be reached at (704) 338-6718.

Sincerely,

**HDR Engineering, Inc.**

  
Jeremy K. O'Brien, P.E.  
Project Manager

/JKO

cc: Mr. Norman Crain, Oconee County Supervisor  
Mr. Jack Hirst, Oconee County Solid Waste Director

**HDR Engineering, Inc.**

Suite 1400  
128 S. Tryon Street  
Charlotte, North Carolina  
28202-5001

Telephone  
704 338-1800

OCONEE COUNTY BID TABULATION

BID FOR: Life Insurance Proposals

DATE: November 29, 1994

BID NO:

LOCATION: Wallhalla, SC

TIME: 2:00

BIDDERS	Leslie & Assoc.	Colonial Life & Accident Insur. Co.	Chastain Insur. Co.		Insurance Brokerage Service
Universal Life	Transamerica Assurance Co.	Colonial Life	Life of Cincinnati	Virginia Life	Lincoln Life
Age 35 \$5/wk.	23,009	24,889	33,000	27,719	20,000
\$10/wk.	48,303	(\$9) 42,222	72,500	55,437	52,400
Age 45 \$5/wk.	11,799	14,141	17,800	17,391	10,000
\$10/wk.	24,915	(\$9) 23,990	36,600	34,783	29,500
Age 55 \$5/wk.	6,325	7,910	9,300	10,497	7,100
\$10/wk.	13,398	(\$8) 13,418	20,500	20,993	16,700
Max. Age	70	70/60 spouse	65	70	
Current Interest Rate	6.25%	loan 6.5%	6.5%	7%	6.0%
Guaranteed Interest	5.00%	4.5%	5.0%		4.0%
Cash Value @ 65	\$12,806	\$8,704 - \$10 \$7,834 - \$9	\$3,559	\$5,156	\$6,192
	35% participation	5% participation		0%	40% participation
	Covers all emp. 30 hrs.+ through age 70 Can cover dependents	Aids \$50K under simplified issue	Simplified will qualify 97%	Actively working through 70. Can cover dependents	Have you been unable to work past 90 days or next 90 days
Max. Age			Beyond 65-heart & cancer que. 70		
Current Interest Rate					
Guaranteed Interest					

ATTENDING OFFICER:

Supplement Info.

OCONEE COUNTY BID TABULATION

BID FOR: Life Insurance Proposals

DATE: Nov. 29, 1934

BID NO: \_\_\_\_\_ LOCATION: \_\_\_\_\_ TIME: \_\_\_\_\_

BIDDERS	Leslie & Assoc.	Colonial Life	Chastains	Insur Brokerage	
45 yr. - \$10/wk. \$30,000 policy					
At age 65					
Cash Value	12,182	7,916	No	7,103	
Paid Up Insur.	22,165		Response	23,920	
Guaranteed Interest	5%	4.5%		4%	

ATTENDING OPENING:

OCONEE COUNTY BID TABULATION

BID FOR: Life Insurance Proposals

DATE: November 29, 1994

BID NO: \_\_\_\_\_

LOCATION: Walhalla, SC

TIME: 2:00

BIDDERS	Leslie & Assoc.	Colonial Life & Accident Insur.Co.	Chastain Insur. Co.	Insurance Brokerage Service
Universal Life	Transamerica Assurance Co.	Colonial Life	Life of Cincinnati Virginia Life	Lincoln Life
Age 35 \$5/wk.	23,009	24,889	33,000	20,000
\$10/wk.	48,303	(\$9) 42,222	72,500	52,400
Age 45 \$5/wk.	11,799	14,141	17,800	10,000
\$10/wk.	24,915	(\$9) 23,990	36,600	29,500
Age 55 \$5/wk.	6,325	7,910	9,300	7,100
\$10/wk.	13,398	(\$8) 13,418	20,500	16,700
Max. Age	70	70/60 spouse	65	70
Current Interest Rate	6.25%	loan 6.5%	6.5%	7%
Guaranteed Interest	5.00%	4.5%	5.0%	4.0%
Whole Life		Colonial Life	Cincinnati Life	New England Mutual
Age 35 \$5/wk.			22,514	13,499
\$10/wk.			45,028	26,986
Age 45 \$5/wk.			13,672	9,108
\$10/wk.			27,344	18,213
Age 55 \$5/wk.			8,053	5,750
\$10/wk.			16,106	11,496
Max. Age			70	
Current Interest Rate				
Guaranteed Interest				

ATTENDING OPENING:



PROPOSAL TO OCONEE COUNTY  
FOR ROADWAY ACCESS IMPROVEMENTS FOR  
SQUARE D COMPANY  
GOLDIE & ASSOCIATES PROPOSAL P94070

**BACKGROUND**

In response to Oconee County's Request for Proposals dated September 27, 1994, Goldie & Associates offer the following. We have developed this proposal for Square D access improvements including design and construction administration of two (2) acceleration lanes, extension of a turning lane, installation of warning lights, and widening of the access roadway to the plant.

**SCOPE**

We have developed the following scope of engineering services.

1. Project Planning: We propose to contact representatives from Oconee County, SCDOT, Square D, SL&WP to ensure that all parties are aware of the proposed modifications prior to detailed design and construction activities. We will assign project and construction managers who will ensure that the engineering tasks of the project will be staffed to proceed as needed.
2. Preliminary: We will perform a field survey to determine existing conditions prior to modifications. This survey will locate existing elevations and layout of the present road, access drive, and utilities.
3. Design: We will compile information gathered from survey and data search to develop working drawings. These working drawings will be the basis for final design documents. We will incorporate design procedures to allow better maneuverability for semi truck ingress and egress. New curb and gutter will be designed to match existing. Existing and proposed roadway profiles and sections will be developed for contractors use. Electrical and control services for the warning lights will be addressed in the design drawings and specifications.

We will develop stormwater and sediment reduction plans as required by the Stormwater Management and Sediment Reduction Act of 1991. The implementation of the developed plan will be included as part of the contractor's responsibility to ensure SCDHEC approved plans are followed during construction.

Project specific specifications will be developed to ensure contractors understanding and quality construction for this project.

4. Encroachment Permits: We intend to keep the SCDOT informed and updated throughout the project so that the approval of encroachment permits can be obtained when necessary with minimal changes.
5. Office Administration: Our administrative staff will include county and/or funding agencies specific requirements in the bid package. They will also develop and process weekly client updating of project status.
6. Construction Administration: Our construction administration group will be responsible for site visits to track construction activities and keep the owner informed of project progress. We envision periodic site visits to the project during construction to ensure contractor's understanding of the approved project drawing & specification packages.

**PROJECT COSTS**

Our fees associated with the above scope of services will be Five Thousand Four Hundred dollars, (\$5,400.00).

**SCHEDULE**

We anticipate that this project will be performed by the following schedule. All dates given are scope phase completion dates. They are indicated by number of weeks after county acceptance of proposal and issuance of a purchase order for our services as outlined in this document.

Project Planning	week 1
Preliminary	week 3
Design	
80% review	week 6
100%	week 8
(rel for SCDOT review)	
Encroachment Permits	week 8
Construction cost opinion	week 10

The schedule from this point on is not within the control of GOLDIE & ASSOCIATES, therefore, it is given only for preliminary planning purposes.

SCDOT review & approval	week 14
G&A incorporate changes & release for Bid	week 16
Receive bids	week 20
Construction begins	week 23
Construction ends	week 29
SCDOT accepts project	week 30

**PROFESSIONAL RATES**

The following rate schedule will apply for additional services required beyond the proposed scope of services.

Project Engineer	\$60.00/hour
Construction Manager	\$40.00/hour
Administration	\$25.00/hour

**TERMS AND CONDITIONS**

1. Several assumptions were made in the development of this proposal, they include the following:
  - A. We will not provide property plats for recording during this project.
  - B. Project coordination with Square D and SCDOT has been performed and all are aware of proposed modifications and have approved the project.

If conditions are otherwise, additional compensation will be required as indicated in the professional rates.

2. Invoices will be submitted monthly for services provided during the prior month. Payment is due within 15 days of receipt of invoices. Interest will be added to delinquent accounts at a rate of one and one-half percent for each month of delinquency. The client agrees to pay Goldie & Associates' cost of collection of all amounts due and unpaid after 60 days, including court costs and reasonable attorney's fee.
3. Any applicable permit fees and/or submission fees required are to be paid by the client.
4. Goldie & Associates will perform its services using that degree of care and skill ordinarily exercised under similar conditions by reputable members of its profession practicing in similar locality and in accordance with applicable law and regulations; however, it is understood by the parties that Goldie & Associates cannot warrant SCDOT or SCDHEC's approval or acceptance.
5. To indicate your acceptance for this work to be conducted, please issue a purchase order in the amounts as indicated in the Scope of Services section of this document. Please reference this proposal in the purchase order. Upon issuance of a purchase order, Goldie & Associates will proceed with the project.

## COMPENSATION

Piedmont Olsen Hensley proposes to provide surveying, engineering, construction administration and project management services as described previously for a lump sum fee of \$23,600 (Twenty Three Thousand Six Hundred Dollars).

The lump sum fee includes time for a field engineer during construction based on an estimate of 12 manhours per week for an eight week construction duration. Should services beyond this estimate be required, compensation will be based on a negotiated adjustment in the lump sum fee.

The following services are not included in this proposal. Should these services be required compensation will be based on a negotiated adjustment in the lump sum fee.

- Traffic Studies.
- Right-of-Way surveys, drawings and acquisitions.

**SC COORDINATING COUNCIL FOR ECONOMIC DEVELOPMENT**  
1201 Main Street, Suite 1770 AT&T Building  
Columbia, South Carolina 29202

**GRANT AWARD AGREEMENT**

In accordance with the provisions of Section 12-27-1270 of the Code of Laws of South Carolina 1976, as amended, the South Carolina Coordinating Council for Economic Development, hereinafter called the Council, does commit and grant to Oconee County, hereinafter called the Grantee, the sum in dollars described elsewhere in this agreement for the Project identified in Section 2 below. The acceptance of the Agreement creates a contract between the Council and the Grantee, legally binding the Grantee to carry out the activities set forth in the grant application in accordance with the terms and conditions set forth in this Agreement and in any appendices attached hereto and any other documents or conditions referred to herein.

**Section 1: DEFINITIONS:**

- (a) Agreement means this Grant Award Agreement.
- (b) Application means the grant application forms submitted by the Grantee to the Council.
- (c) Company means the economic development corporate entity that is identified in the application.
- (d) Contractor means a private contractor who undertakes all or part of the Project.
- (e) Council means the South Carolina Coordinating Council for Economic Development (CCED).
- (f) Grant means the dollars committed by the Council to the Grantee for the Project.
- (g) Grantee means the unit of government designated for the grant award.
- (h) Project means the project identified and described in the grant application.
- (i) State means the State of South Carolina and any agencies or offices thereof.

**Section 2: PROJECT DESCRIPTION:** The Project is described in the application from the Grantee to the Council and which has been approved by the Council, and is included by reference as Project #1281 - Square D Industries.

*dehes*

**Section 3: AWARD AMOUNT:** The Council hereby commits an amount not to exceed one hundred twenty five thousand dollars (\$125,000.00), to be used only for the Project and related costs, as described in the Application. Eligible costs that can be paid by the grant include design and engineering, grading and excavation, paving, utility relocation, and similar costs. Costs against this grant cannot be incurred without written notice to proceed from CCED. If the grantee needs to incur expenses prior to this notification, a written request must be made, and approval given in writing. Funds may be used to reimburse the grantee or the Company for eligible expenditures made prior to the execution of this Agreement only when such prior expenditures were for improvements on public property that were necessary for the construction schedule of the Company. Any expenditure made prior to the date of execution of this Agreement is made by the Grantee or the Company at its own risk.

**Section 4: AMENDMENTS:** Any changes in the scope of work of the Project, including change orders or cost increases, must be submitted in writing by the Grantee to the Council as a request for an award adjustment, and such request must clearly identify the need for the change or relief. Any adjustment granted by the Council shall be appended to this Agreement as an amendment.

**Section 5: PERFORMANCE:** By acceptance of this grant award, the Grantee warrants that it will complete or cause to be completed the Project as described in the approved Application, including any approved amendments appended hereto. Failure to complete all or part of the Project shall be cause for reimbursement of any funds that were received by the Grantee for the work that was not performed.

**Section 6: AUDIT:** Except for relief granted under Section 4, the Grantee agrees that it will return surplus grant funds that result from project cost underruns, and that it will commit and provide monies from its own resources for cost overruns that are required to complete the Project. The Grantee must include an examination and accounting of the expenditures of grant funds in its first annual audit following the completion of the Project, and submit a copy of the audit report to the Council. The Grantee agrees that it will reimburse the Council for unauthorized and unwarranted expenditures disclosed in the audit, if so directed by the Council. Records with respect to all matters covered by this Agreement shall be made available for audit and inspection by the Council and its representatives. The Grantee shall have prepared an audit of funds received under this Agreement which adheres to the following audit requirements, whichever is applicable:

- (a) Generally accepted auditing standards established by the American Institute of Certified Public Accountants, (AICPA);
- (b) The General Accounting Office (GAO) Standards for Audits of Governmental Organizations, Programs, Activities, and Functions, latest revised edition (yellow Book);
- (c) Guidelines for Financial and Compliance Audits of Federally Assisted Programs (red book);
- (d) OMB Circular A-128; and
- (e) OMB Circular A-110, Attachment F.

**Section 7: CONTRACTOR SELECTION:** If the Grantee selects a contractor other than a public agency to undertake all or any part of the scope of work of the Project, then the selection of that private Contractor by the Grantee must follow applicable procurement guidelines.

Documentation of the procurement process and any sole source justification must be made available to the Grantee's auditor, the Council, and to the public, upon request. Failure to adhere to acceptable procurement procedures may result in a call for repayment from the Grantee to the Council for funds that were spent in a disallowable manner.

A Contractor must represent that he has, or will secure at his own expense, all personnel required in the performance of the services covered by this Agreement. Such personnel shall not be employees of, or have any contractual relationship with the Council.

"It shall be a breach of ethical standards for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor of higher tier subcontractor or any person associated therewith as an inducement for the award of a subcontract order." (Amended Section 8-13-420 of the 1976 Code of Laws for South Carolina.)

All of the services required hereunder will be performed by the Grantee and/or a Contractor, or under his supervision, and all personnel engaged in the work shall be fully qualified and shall be authorized under state and local law to perform such services.

The Grantee and/or a Contractor shall be liable for and pay all taxes required by local, state, or federal governments, which may include, but not be limited to, social security, worker's compensation, and employment security as required by law. No employee benefits of any kind shall be paid by the Council to or for the benefit of the Grantee and/or a Contractor or his employee or agents by reason of this Agreement.

The Grantee warrants that he will enforce all terms and conditions of this Agreement upon his Contractors.

**Section 8: EXCUSABLE DELAY:** The Grantee shall not be liable for any excess costs if the failure to perform the Agreement arises out of causes beyond the control and without the fault or negligence of the Grantee.

Such causes may include, but are not restricted to acts of God or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case the failure to perform must be beyond the control and without the fault or negligence of the Grantee. If the failure to perform is caused by the default of a Contractor, and if such default arises out of causes beyond the control of both the Grantee and the Contractor, and without the fault or negligence of either of them, the Grantee shall not be liable for any excess costs for failure to perform, unless the supplies or services to be furnished by the Contractor were obtainable from other sources in sufficient time to permit the Grantee to meet the Project schedule.

**Section 9: CONFIDENTIAL INFORMATION:** Any reports, information, data, etc., given to or prepared or assembled by the Grantee under this Agreement which the Council requests to be kept confidential shall not be made available to any individual or organization by the Grantee without the prior written approval of the Agency.

**Section 10: DISCRIMINATION:** The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, age, sex, national origin, or handicap. The Contractor shall take affirmative action to ensure that applicants for employment, and the employees are treated during employment, without regard to their race, color, religion, age, sex, national origin, or handicap.

**Section 11: INTEREST OF CERTAIN FEDERAL OR STATE OFFICIALS:** No elected or appointed State or Federal Official, shall be admitted to any share or part of this Agreement or to any benefit to arise from the same.

**Section 12: INTEREST OF MEMBERS, OFFICERS, OR EMPLOYEES OF GRANTEE, MEMBERS OF LOCAL GOVERNING BODY, OR OTHER PUBLIC OFFICIALS:** No member, officer, or employee of the Grantee, or its designees or agents, no member of the governing body of the locality in which the program is situated, and no other public official of such locality or localities who exercises any functions or responsibilities with respect to the Project during his tenure or for one year thereafter, shall have any interest, direct or indirect, in any contract or subcontract, or the proceeds thereof, for work to be performed in connection with the Project assisted under the Agreement. The Grantee shall incorporate, or cause to be incorporated, in all such contracts or subcontracts a provision prohibiting such interest pursuant to the purposes of this section.

**Section 13: PROHIBITION AGAINST PAYMENTS OF BONUS OR COMMISSION:** The assistance provided under this Agreement shall not be used in the payment of any bonus or commission for the purpose of obtaining the Council approval of the application for such assistance, or Council approval of applications for additional assistance, or any other approval or concurrence of the Council required under this Agreement. However, that reasonable fees or bona fide technical, consultant, managerial or other such services, other than actual solicitation, are not hereby prohibited if otherwise eligible as project-related costs.

**Section 14: MAINTENANCE OF RECORDS:** Records for non-expendable property purchased totally or partially with grant funds must be retained for three years after its final disposition. All other pertinent grant records including financial records, supporting documents, and statistical records shall be retained for a minimum of three years after the final expenditure report. However, if any litigation, claim, or audit is started before the expiration of the three year period, then records must be retained for three years after the litigation, claim, or audit is resolved.

**Section 15: MBE OBLIGATION:** The Grantee agrees to ensure that minority business enterprises, as identified in Article 21, Sections 11-35-5010 through 11-35-5270 of the 1976 Code of Laws for South Carolina, have the maximum opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with funds provided under this Agreement. In this regard, all Grantees or Contractors shall take all necessary and reasonable steps to ensure that minority business enterprises have the maximum opportunity to compete for and perform contracts. Grantees and their Contractors shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of contracts.

**Section 16: PROJECT COMPLETION:** Projects must be completed within 18 months of the date of award of the grant. Completion is defined as the final documentation of funds expended and receipt by the Council of the grantee's Close-out Report. Extensions to program periods are made at the discretion of the Council.

**Section 17: SANCTIONS:** If the Grantee fails or refuses to comply with the terms and conditions herein set forth, the Council may take any or all of the following actions: cancel, terminate, or suspend, in whole or in part, the grant award; or, refrain from extending any further assistance to the Grantee until such time as the Grantee is in full compliance.

**Section 18: APPLICABLE LAW:** This Agreement is made under and shall be construed in accordance with the laws of the State of South Carolina. By executing this Agreement, the Grantee agrees to submit to the jurisdiction of the courts of the State of South Carolina for all matters arising or to arise hereunder, including but not limited to, performance of said Agreement and the payment of all licenses and taxes of whatever kind or nature applicable hereto.

**Section 19: APPROPRIATIONS:** Notwithstanding any other provisions of this Agreement, the parties hereto agree that the compensation and expenses hereunder are payable by appropriations from the State. In the event sufficient appropriations, grants, and monies are not made available through the Council to pay the compensation and expenses hereunder for any fiscal year, this Agreement shall terminate without further obligation of the Council. In such event, the Council shall certify to the Grantee the fact that sufficient funds have not been made available to the Council to meet the obligations of this Agreement; and such written certification shall be conclusive upon the parties.

**Section 20: COPYRIGHT:** No material produced in whole or in part under this grant award shall be subject to copyright in the United States or in any other country. The Council shall have the unrestricted authority to publish, disclose, distribute and otherwise use, in whole or in part, any reports, data or other materials prepared under this grant.

**Section 21: TERMS AND CONDITIONS:** The Council reserves the right to add or delete terms and conditions of this Agreement as may be required by revisions and additions to changes in the requirements, regulations, and laws governing the Council and any other agency of the State.

**Section 22: REPORTING REQUIREMENTS:** The Grantee agrees to complete and submit all reports, in such form and according to such schedule, as may be required by the Council.

**Section 23: PROJECT START-UP:** All projects must begin within three (3) months of the Date of Award of the grant. If the project has not started up within 3 months of the Date of Award of the grant, the Council reserves the right to rescind the grant award. Start-up is defined as a significant obligation or expenditure of funds, indicating overall satisfactory program progress.

**Section 24: LIABILITY:** The Grantee understands and warrants that it will defend any liability arising from the Project and that the Council accepts no liability for the Project nor any responsibility other than its agreement to approve funding for design and construction in the amount shown in Section 3, as adjusted, in so far as such funds are expended in accordance with the terms and conditions of this Agreement.

**Section 25: PAYMENT:** The Grantee must submit to the Council a certified request for payment for work that is documented by the Grantee as completed. The Council, upon its approval of the request for payment, shall forward such requests to the South Carolina Department of Transportation. Payments are issued from the Comptroller General's office. Payment requests should be submitted to the Council no more than once a month.

The Grantee will certify, to the best of their knowledge, information and belief, that the work covered by the request for funding has been completed in accordance with this Grant Agreement between the Grantee and the South Carolina Coordinating Council for Economic Development, and that current payment shown herein is now due.

All requests for payment must be certified as valid expenditures by an official representative of the Grantee. Invoices and cancelled checks backing up the requests must be kept on file and be available for inspection at any time.

**Section 26: RESPONSIBILITY FOR MAINTENANCE:** Maintenance of new roads and other improvements to the Grantee's or Company's right of way and/or property is the responsibility of the Grantee. The Grantee may assign this responsibility to any agreeable party.

This Agreement shall become effective, as of the date of award, upon return of two copies of this grant award which have been signed in the space provided below. Both copies must have original signatures and must be returned within 15 days from the date of award.

8-19-94  
Date of Award

  
Haidee Clark Stith, Director  
SOUTH CAROLINA COORDINATING COUNCIL  
FOR ECONOMIC DEVELOPMENT

ACCEPTANCE FOR THE GRANTEE

\_\_\_\_\_  
Signature of Official with Legal Authority  
to Execute this Agreement for the Grantee

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed Name and Title of Authorized Official

ATTEST:

\_\_\_\_\_  
Signature of Elected City or County Council  
Member, as appropriate

\_\_\_\_\_  
Signature of Elected City or County Council  
Member, as appropriate

## CONTRACT

between

THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

and

OCONEE COUNTY

This contract shall be effective as of the 2nd day of November, 1994 between the South Carolina Department of Health and Environmental Control, Division of Emergency Medical Services, (hereinafter referred to as DHEC) and Oconee County (hereinafter referred to as the Contractor).

A. SCOPE OF SERVICES

This contract will be considered as an agreement between the parties concerned that the Contractor will purchase the following equipment or training programs to upgrade and expand the Emergency Medical Services within the county. The requested items on DHEC form 1061 is attached as Annex A.

B. TIME OF PERFORMANCE

Services under this contract are to be made available as soon as practical after the execution of this contract. This contract is effective November 2, 1994 and will terminate June 30, 1995.

C. COMPENSATION

DHEC agrees to reimburse the Contractor an amount not to exceed 92.5 percent of the project for equipment provided under the terms of this agreement. Basis for payment is actual expenditures for authorized purchases; however, in no event will the total amount to be reimbursed under this Contract exceed \$18,551.80.

D. METHOD OF PAYMENT

The DHEC will remit payment to the Contractor within thirty (30) days of receipt of the reimbursement request.

E. COMPLIANCE REPORTS

1. A written statement, signed by the county government official verifying that state funds were not used to replace local county funds for EMS.

2. A statement from the authorizing county official that state or local purchasing requirements were followed in the purchase of the equipment.

3. The Contractor shall submit a final report regarding the implementation of the grant application as outlined in this contract. This should be done at the time of request for reimbursement.

F. TERMS AND CONDITIONS

1. None of the work or services covered by the contract shall be subcontracted without prior written approval of DHEC.

2. Any changes to this contract, which are mutually agreed upon between DHEC and the Contractor, shall be incorporated in written statements to this contract.

3. Any reports, information, data, etc., given to or prepared or assembled by the Contractor under this contract which DHEC requests to be kept confidential shall not be made available to an individual or organization by the Contractor without the prior written approval of DHEC.

4. Records with respect to all matters covered by this contract shall be retained by the Contractor for four years after the end of the contract period and shall be available for audit and inspection at any

time such audit is deemed necessary by DHEC. If audit has begun but is not completed at the end of the four-year period, or if audit findings have not been resolved at the end of the four-year period, the records shall be retained until resolution of the audit findings.

5. No person shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination in relation to any activities carried out under this contract on the grounds of race, color, or national origin.

6. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

7. This contract may be terminated by either party by giving written notice at least 30 days prior to the effective date of such termination.

8. DHEC shall be the owner of any copyright developed under this contract.

9. It shall be a breach of ethical standards for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

10. Contractors must agree to make positive efforts to use small and minority owned businesses and individuals. This effort will include but not be limited to establishing a Minority Business Utilization policy and a system for reporting compliance quarterly to DHEC. Forms (DHEC 128) will be for each quarter.

11. The Contractor agrees to conform to all requirements of OMB Circular 102.

12. Notwithstanding any other provisions of the contract, the parties hereto agree that the charges to DHEC by the Contractor are payable from appropriations, grants, and monies from the State Legislature and other governmental entities. In the event sufficient appropriations, grants, and monies are not made to DHEC to pay the charges hereunder, this agreement shall terminate without further obligation of DHEC. In such event, the DHEC shall certify the Contractor the fact that sufficient funds are not available to DHEC to meet the obligations of the contract and such written certification shall be conclusive upon the parties.

13. The Contractor certifies that he/she will not engage in the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance in the performance of this contract. This certification also applies to any individual employed by the Contractor.

The parties to this contract hereby agree to any and all provisions of the contract as stipulated above.

South Carolina Department of  
Health and Environmental Control

BY: \_\_\_\_\_

Deputy Commissioner

TITLE: Health Regulation

DATE: \_\_\_\_\_

WITNESSES:  
\_\_\_\_\_  
\_\_\_\_\_

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

WITNESSES:  
\_\_\_\_\_  
\_\_\_\_\_

EI#: 57-6000-391

Mailing/ Address:  
\_\_\_\_\_  
\_\_\_\_\_

## OCONEE COUNTY COUNCIL

ORDINANCE 94- 2

AN ORDINANCE REGULATING VEHICULAR TRAFFIC ON OR NEAR CONERROSS WATER SHED DAM 1-A COMMONLY KNOWN AS "POOR FARM LAKE".

WHEREAS, the County of Oconee owns certain real property located in the Wagner Township of Oconee County, South Carolina upon which is located a water shed lake known as Poor Farm Lake; and

WHEREAS, due to the unauthorized operation of off-road vehicles outside of designated roadways, the Oconee County Council has determined that it is necessary to regulate vehicular traffic upon such property for such purposes;

WHEREAS, Section 4-9-25 of the Code of Laws of South Carolina (1976), as amended, grants certain police powers to the governing bodies of South Carolina, to include the authority to enact Ordinances preserving the health, safety, security and order of the general public;

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF OCONEE COUNTY, IN SESSION DULY ASSEMBLED AND WITH A QUORUM PRESENT AND VOTING:

SECTION 1. TITLE.

This Ordinance shall be known, in addition to the number, and may be cited as "AN ORDINANCE REGULATING VEHICULAR TRAFFIC ON OR NEAR CONERROSS WATER SHED DAM 1-A COMMONLY KNOWN AS "POOR FARM LAKE".

SECTION 2. PURPOSE AND EFFECT.

A. It shall be unlawful for any person to operate or use any type of motorized vehicle upon any real property owned by Oconee County located in the Wagner Township of Oconee County, South Carolina, and in particular, that property upon which is located Water Shed Dam 1-A commonly known as "Poor Farm Lake" except upon such roadways as are clearly marked or designated for vehicular traffic.

B. This prohibition shall not apply to duly constituted and authorized Federal, State or local government, personnel, agents, or officers engaged in the lawful performance of their duties.

SECTION 3. PENALTIES.

Any person convicted of violating any provision of this Ordinance shall be punished by a fine of not more than \$100.00 or imprisoned for not more than thirty (30) days or both.

SECTION 4. SEVERABILITY.

If any word(s), section, subsection, sentence, clause, phrase or portion of this Ordinance is for any reason held invalid or unconstitutional by any Court of competent jurisdiction, such portion shall be deemed a separate district and independent provision and, such holding shall not affect the validity of the remaining portions thereof.

SECTION 5. EFFECTIVE DATE.

This Ordinance shall become effective upon third and final reading and passage by the Oconee County Council.

Ratified and adopted on first reading this \_\_\_\_\_ day of \_\_\_\_\_, 1994, by a vote of \_\_\_\_\_ Yes, \_\_\_\_\_ No.

\_\_\_\_\_  
Opal O. Green, Council Clerk

Ratified and Adopted on second reading this \_\_\_\_\_ day of \_\_\_\_\_, 1994 by a vote of \_\_\_\_\_ Yes, \_\_\_\_\_ No.

\_\_\_\_\_  
Opal O. Green, Council Clerk

Ratified and on third and final reading this \_\_\_\_\_ day of \_\_\_\_\_, 1994, by a vote of \_\_\_\_\_ Yes, \_\_\_\_\_ No.

\_\_\_\_\_  
Norman D. Crain  
Supervisor-Chairman  
Oconee County Council

Attest:

\_\_\_\_\_  
Opal O. Green, Council Clerk

OCONEE COUNTY COUNCIL

ORDINANCE 94- 8

AN ORDINANCE AMENDING OCONEE COUNTY ORDINANCE 91-6 SO AS TO AMEND SECTION 9(b) THEREOF RELATING TO THE REQUIRED OFFICE HOURS TO BE MAINTAINED BY THE GRANTEE NAMED IN SAID ORDINANCE AND AMENDING OCONEE COUNTY ORDINANCE 91-7 SO AS TO AMEND SECTION 9(b) THEREOF RELATING TO THE REQUIRED OFFICE HOURS TO BE MAINTAINED BY THE GRANTEE NAMED IN SAID ORDINANCE.

WHEREAS, the Oconee County Council did heretofore enact Oconee County Ordinance 91-6, known as "Cable Television Franchise Ordinance For Larry Waterman d/b/a County Cablevision"; and

WHEREAS, the Oconee County Council did heretofore enact Oconee County Ordinance 91-7, known as "Cable Television Franchise Ordinance For Phoenix Cable Incorporated; and

WHEREAS, Section 9(b) of Oconee County Ordinance 91-6 requires the Grantee named therein, Larry Waterman d/b/a County Cablevision, to maintain an office within the County which shall be open during all usual business hours; and

WHEREAS, Larry Waterman d/b/a County Cablevision has requested to be allowed to modify its office hours in Oconee County, South Carolina; and

WHEREAS, Section 9(b) of Oconee County Ordinance 91-7 requires the Grantee named therein, Phoenix Cablevision, to maintain an office within the county which shall be open during all normal business hours; and

WHEREAS, Phoenix Cablevision has requested to be allowed to modify its office hours in Oconee County, South Carolina;

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF OCONEE COUNTY, IN SESSION DULY ASSEMBLED AND WITH A QUORUM PRESENT AND VOTING:

SECTION 1. TITLE.

This Ordinance shall be known, and may be cited, in addition to the number, as "AN ORDINANCE AMENDING OCONEE COUNTY ORDINANCE 91-6 SO AS TO AMEND SECTION 9(b) THEREOF RELATING TO THE REQUIRED OFFICE HOURS TO BE MAINTAINED BY THE GRANTEE NAMED IN SAID ORDINANCE AND AMENDING OCONEE COUNTY ORDINANCE 91-7 SO AS TO AMEND SECTION 9(b) THEREOF RELATING TO THE REQUIRED OFFICE HOURS TO BE MAINTAINED BY THE GRANTEE NAMED IN SAID ORDINANCE."

**SECTION 2. PURPOSE AND EFFECT.**

A. Section 9(b) of Oconee County Ordinance 91-6 is hereby amended to provide as follows:

Section 9(b). The Grantee shall maintain and make available to all residents of the County, a listed toll free telephone number which shall be so operated that complaints and requests for repairs or adjustments may be received at any time. In addition, the Grantee shall maintain an office within the County having a listed telephone number which shall, at a minimum, be open during usual business hours each Monday, Wednesday and Friday.

B. Section 9(b) of Oconee County Ordinance 91-7 is hereby amended to provide as follows:

Section 9(b). The Grantee shall maintain and make available to all residents of the County, a listed toll free telephone number which shall be so operated that complaints and requests for repairs or adjustments may be received at any time. In addition, the Grantee shall maintain an office within the County having a listed telephone number which shall, at a minimum, be open during usual business hours each Monday, Wednesday and Friday.

**SECTION 3. REMAINING PROVISIONS UNAFFECTED.**

A. All remaining terms and provisions of Ordinance 91-6 shall remain unchanged and in full force and effect.

B. All remaining terms and provisions of Ordinance 91-7 shall remain unchanged and in full force and effect.

**SECTION 4. SEVERABILITY.**

If any word(s), section, subsection, sentence, clause, phrase or portion of this Ordinance is for any reason held invalid or unconstitutional by any Court of competent jurisdiction, such portion shall be deemed a separate district and independent provision and such holding shall not affect the validity of the remaining portions thereof.

**SECTION 5. EFFECTIVE DATE.**

This Ordinance shall become effective upon third and final reading and passage by the Oconee County Council.

Ratified and adopted on first reading this \_\_\_\_\_ day of \_\_\_\_\_, 1994, by a vote of \_\_\_\_\_ Yes, \_\_\_\_\_ No.

\_\_\_\_\_  
Opal O. Green, Council Clerk

Ratified and Adopted on second reading this \_\_\_\_\_ day of \_\_\_\_\_, 1994 by a vote of \_\_\_\_\_ Yes, \_\_\_\_\_ No.

\_\_\_\_\_  
Opal O. Green, Council Clerk

Ratified and on third and final reading this \_\_\_\_\_ day of \_\_\_\_\_, 1994, by a vote of \_\_\_\_\_ Yes, \_\_\_\_\_ No.

\_\_\_\_\_  
Norman D. Crain  
Supervisor-Chairman  
Oconee County Council

Attest:

\_\_\_\_\_  
Opal O. Green, Council Clerk

## OCONEE COUNTY COUNCIL

ORDINANCE 94- 10

AN ORDINANCE AMENDING OCONEE COUNTY ORDINANCE 79-19 SO AS TO CHANGE THE NAME OF THE OCONEE COUNTY CITY-COUNTY SANITATION COMMISSION TO THE OCONEE COUNTY SOLID WASTE COMMISSION.

WHEREAS, by Ordinance 79-19, the Oconee County Council did create the Oconee County City-County Sanitation Commission with such duties and authority as therein provided; and

WHEREAS, upon the advice and recommendation of the Oconee County City-County Sanitation Commission, the Oconee County Council has determined that it is necessary and appropriate to change the name of such Commission to the Oconee County Solid Waste Commission;

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF OCONEE COUNTY, IN SESSION DULY ASSEMBLED AND WITH A QUORUM PRESENT AND VOTING:

SECTION 1. NAME, PURPOSE.

This Ordinance shall be known, and may be cited, in addition to the number, as "An Ordinance To Amend Oconee County Ordinance 79-19 So As To Change The Name Of The Oconee County City-County Sanitation Commission To The Oconee County Solid Waste Commission.

SECTION 2. PURPOSE AND EFFECT.

A. From the effective date hereof, Oconee County Ordinance 79-19 is hereby amended such that the name of the Oconee County City-County Sanitation Commission shall be changed to and henceforth known and designated as the Oconee County Solid Waste Commission.

B. All remaining terms and provisions of Oconee County Ordinance 79-19 not inconsistent herewith shall remain unchanged and in full force and effect.

SECTION 3. SEVERABILITY.

If any word(s), section, subsection, sentence, clause, phrase or portion of this Ordinance is for any reason held invalid or unconstitutional by any Court of competent jurisdiction, such portion shall be deemed a separate distinct and independent provision and such holding shall not affect the validity of the remaining portions thereof.

SECTION 4. EFFECTIVE DATE.

This Ordinance shall become effective upon third and final reading and passage by the Oconee County Council.

Ratified and adopted on first reading this \_\_\_\_\_ day of \_\_\_\_\_, 1994, by a vote of \_\_\_\_\_ Yes, \_\_\_\_\_ No.

\_\_\_\_\_  
Opal O. Green, Council Clerk

Ratified and Adopted on second reading this \_\_\_\_\_ day of \_\_\_\_\_, 1994 by a vote of \_\_\_\_\_ Yes, \_\_\_\_\_ No.

\_\_\_\_\_  
Opal O. Green, Council Clerk

Ratified and on third and final reading this \_\_\_\_\_ day of \_\_\_\_\_, 1994, by a vote of \_\_\_\_\_ Yes, \_\_\_\_\_ No.

\_\_\_\_\_  
Norman D. Crain  
Supervisor-Chairman  
Oconee County Council

Attest:

\_\_\_\_\_  
Opal O. Green, Council Clerk

# Oconee County Council

Mary Frances Burrell  
District One  
Post Office Box 53  
Tamassee, SC 29686

Harrison E. Orr  
District Two  
P.O. Box 1068  
Walhalla, SC 29691

Michael E. Harper  
District Three  
Post Office Box 977  
Seneca, SC 29679

Public Service Building  
208 Booker Drive  
Walhalla, SC 29691  
(803) 638-4244

Norman D. Crain  
Supervisor, Chairman  
317 Old Seneca Road  
Westminster, SC 29693  
(803) 638-4242 - Office

Roy B. Strickland  
District Four  
203 Isundega Street  
Westminster, SC 29693

Alton K. Williams  
District Five  
901 Pine Grove Road  
Seneca, SC 29678

Timothy M. Cain  
County Attorney  
Post Office Box 698  
Seneca, SC 29679

December 6, 1994

Mr. Roy B. Strickland, Vice Chairman  
Oconee County Council  
208 Booker Drive  
Walhalla, SC 29691

Dear Mr. Strickland:

Whereas residents of West Pond Fork Roadway located of S-37-35 (Poplar Springs Rd) which is near the intersection of S-37-35 (Poplar Springs Rd.) and S-37-135 (Bountyland Rd.) have requested that West Pond Fork Roadway be accepted for County maintenance through Oconee County Ordinance 91-9 and,

Whereas, I, Norman D. Crain, have a niece by marriage who lives on said roadway with her husband and two (2) small children,

Therefore, I hereby assign this administrative responsibility for determining the eligibility or non eligibility of this roadway for acceptance into the County system to you in your official capacity as Vice Chairman to the Oconee County Council.

Further, any and all personnel, to include the County Attorney, whose services and/or expertise deemed necessary by you in fulfilling this obligation is hereby made available to you.

I am removing myself from this matter to remove any real or perceived conflict that may exist.

With warm regards, I am

Respectfully,



Norman D. Crain  
Supervisor-Chairman  
Oconee County Council

C: Council Members

STATE OF SOUTH CAROLINA )  
 )  
COUNTY OF OCONEE )

LEASE AGREEMENT

THIS LEASE, made and entered into as of the 28<sup>th</sup> day of October, 1994, by and between DUKE POWER COMPANY, a corporation organized under the laws of the State of North Carolina, Lessor, and OCONEE COUNTY, SOUTH CAROLINA, Lessee;

W I T N E S S E T H :

That Lessor, for and in consideration of the rents to be paid and the covenants and agreements hereinafter expressed, to be kept and performed by Lessee, hereby leases to Lessee and Lessee hereby leases from Lessor, subject to the exceptions and reservations and upon the terms and conditions and for the purposes in this instrument set out, the following property located in Oconee County, South Carolina, hereinafter sometimes referred to as "the Leased Premises," to wit:

All that certain tract of land containing 45.57 acres, bound on the north by lands now or formerly of Darrell Ellenburg, center line of unimproved road, on the east by lands now or formerly of M. Kay Crowe, on the east, south and west by Duke Power Company's Lake Keowee Hydroelectric Project, and on the northwest by lands now or formerly of John L. Neville and Mrs. H.W. Vandiviere, as shown on plat of survey dated January 7, 1981, marked File No. K-10-R4-A, a copy of which designated "Exhibit A" is attached hereto and made a part hereof;

1. Term: This lease shall begin on the 28<sup>th</sup> day of October, 1994, and shall terminate on the 1st day of September, 2016.

2. Renewal: Lessor shall have no obligation to renew this Lease and has made no representation that it will renew this Lease.

3. Warranties:

(a) Authority: In order to induce Lessor to enter into this Lease, Lessee warrants and represents that it has authority to enter into this Lease.

(b) Warranties of Title: Lessor represents to Lessee that it has good and marketable title to the Leased Premises, subject to all valid easements and restrictions of record, and that it has full and lawful authority to enter into this Lease; except that the Leased Premises is dedicated to public use by terms of Lessor's license for its Keowee-Toxaway Hydroelectric Project issued by the Federal Energy Regulatory Commission pursuant to the Federal Power Act, and Lessee's use of said Leased Premises shall be subject to regulatory control by said Commission.

STATE OF SOUTH CAROLINA )  
 )  
COUNTY OF OCONEE )

LEASE AGREEMENT

THIS LEASE, made and entered into as of the 28<sup>th</sup> day of October, 1994, by and between DUKE POWER COMPANY, a corporation organized under the laws of the State of North Carolina, Lessor, and OCONEE COUNTY, SOUTH CAROLINA, Lessee;

W I T N E S S E T H :

That Lessor, for and in consideration of the rents to be paid and the covenants and agreements hereinafter expressed, to be kept and performed by Lessee, hereby leases to Lessee and Lessee hereby leases from Lessor, subject to the exceptions and reservations and upon the terms and conditions and for the purposes in this instrument set out, the following property located in Oconee County, South Carolina, hereinafter sometimes referred to as "the Leased Premises," to wit:

All that certain tract of land containing 29.24 acres, bound on the north, east, and south by Duke Power Company's Lake Keowee Hydroelectric Project, and on the west by lands now or formerly of Crescent Land & Timber Corp., as shown on plat of survey dated December 18, 1980, marked File No. K-219-R2-B, a copy of which designated "Exhibit A" is attached hereto and made a part hereof;

1. Term: This lease shall begin on the 28<sup>th</sup> day of October, 1994, and shall terminate on the 1st day of September, 2016.

2. Renewal: Lessor shall have no obligation to renew this Lease and has made no representation that it will renew this Lease.

3. Warranties:

(a) Authority: In order to induce Lessor to enter into this Lease, Lessee warrants and represents that it has authority to enter into this Lease.

(b) Warranties of Title: Lessor represents to Lessee that it has good and marketable title to the Leased Premises, subject to all valid easements and restrictions of record, and that it has full and lawful authority to enter into this Lease; except that the Leased Premises is dedicated to public use by terms of Lessor's license for its Keowee-Toxaway Hydroelectric Project issued by the Federal Energy Regulatory Commission pursuant to the Federal Power Act, and Lessee's use of said Leased Premises shall be subject to regulatory control by said Commission.

(c) Disclaimer of Warranties of Condition: Lessee accepts the Leased Premises "as is". Lessor makes no warranties or representations as to the condition of the Leased Premises or any improvements thereon, whether open and obvious or concealed.

(d) Warranty of Quiet Enjoyment: Lessor warrants to Lessee the quiet enjoyment of the Leased Premises, safe from the lawful claim or disturbances of any person claiming by, through or under Lessor for the full term of this Lease, so long as Lessee is not in default of its performance of any covenant contained herein, except, however, Duke may cancel this Lease on thirty (30) days prior written notice if directed to do so by The Federal Energy Regulatory Commission.

4. Rent: The consideration flowing to Lessor for this Lease is the Lessee's assuming responsibility for maintenance and operation of the recreational facilities required of Lessor under the terms of Lessor's license issued to it by The Federal Energy Regulatory Commission (FERC) pursuant to the Federal Power Act. Failure by Lessee to maintain and operate the FERC required facilities and the areas of the Leased Premises subject to FERC regulatory oversight to the standards reasonably required by the FERC, shall constitute a default under the terms of this Lease.

5. Permitted Uses: The Lease Premises may be used by Lessee for development, maintenance and operation as a public park and/or recreational area and for no other purposes. Other uses may be permitted only by written authority of Lessor. Lessee shall allow free public boat launching at the existing boat ramp designated on Exhibit A.

6. User Fees: A schedule of user fees is attached hereto as Exhibit B. Such fees shall not be increased in greater proportion than the increase from the time of the commencement of this Lease in the Consumer Price Index, All Urban Consumers, All Items, published by The Bureau of Labor Statistics. Any increase in excess thereof must be submitted to and approved by Lessor in writing prior to being placed in effect or increased. Contracts or agreements with third parties regarding the sale of goods or services must be submitted to and approved by Lessor prior to execution thereof by Lessee. Lessee and its contractors selling goods and services may establish pricing free of Lessor's control.

7. Improvements:

(a) Improvements by Lessee: Subject to written approval of Lessor, which approval shall not be unreasonably withheld, and, when required, the prior approval of FERC, Lessee shall have the right at its expense to make additions or modifications to those facilities and improvements existing upon the Leased Premises at the commencement of the lease term and to develop additional park facilities and improvements in the future not inconsistent with the

permitted uses stated herein. Lessee shall submit to Lessor for Lessor's review detailed construction plans and elevation drawings for all proposed alterations or improvements.

(b) End of Lease: Upon the termination or expiration of the Lease, all buildings, improvements, fixtures and other items of real property shall become the property of the Lessor, except however if Lessee shall make any capital improvement during the final ten years of this Lease which shall cost in excess of ten thousand dollars (\$10,000.00), then at the expiration of this Lease, Lessor shall reimburse Lessee for the cost thereof reduced by 3 1/3% for each year or portion thereof from the date of completion of such improvement to the date of expiration of this Lease. For example, if Lessee shall construct a cost of fifty thousand dollars (\$50,000.00) an improvement at a time that is eight years prior to the expiration of this Lease, then at the expiration of this Lease, Lessor shall pay the Lessee the sum of thirty six thousand six hundred sixty-six dollars and 67/100 cents (\$36,666.67). Lessee shall remove all personal property of Lessee located upon the Leased Premises to include all piers and boat slips provided by Lessee. If Lessee shall not have removed its personal property within 30 days of the termination or expiration of the Lease, Lessor may at its option retain and use any portion of same or remove and dispose of any portion of same without liability to Lessee and shall be reimbursed by Lessee for its cost thereof.

(c) Waiver: Lessee hereby waives all claims against Lessor for damages to the buildings and improvements that are now or hereafter placed or built on the Leased Premises and to the property of Lessee in, on or about the Leased Premises, resulting from fluctuation in the water level of Lake Keowee.

(d) Hazard Insurance: Lessee shall also, at all times during the term of this Lease, keep all improvements which are now or hereafter a part of the Leased Premises insured against loss or damage by fire and the extended coverage hazards for eighty percent (80%) of the full replacement value of such improvements. Any loss adjustment shall require the written consent of both Lessor and Lessee. In the event any improvements upon the Leased Premises shall be damaged or destroyed by fire or other casualty, then Lessor shall promptly restore same to the condition existing before such loss or damage.

8. Power Line Easement: Lessor reserves for itself, its successors and assigns, an easement to build, construct, maintain and operate electric distribution/transmission lines on, over, along and above the Leased Premises, together with the right, privilege and easement to erect, construct, reconstruct, replace, maintain and use towers, poles, wires, crossarms and other appliances and fixtures (excluding substations) for the purpose of transmitting or distributing electric power and for Lessor's

communication purposes, with all other rights in land normally acquired by Lessor in connection therewith. If the construction of electric line shall require relocation of an improvement of the Lessee, Lessor shall bear the cost thereof.

9. Entry by Lessor: Lessor, its agents and representatives, at all reasonable times may enter said property to examine same and any such entry by or on behalf of Lessor shall not be or constitute an eviction, partial eviction or deprivation of any right of Lessee and shall not alter the obligations of the Lessee hereunder or create any right in Lessee adverse to the interest of Lessor. Lessor and Lessee will perform a joint physical inspection of the Leased Premises in April of each year during the term of this Lease.

10. Transfer or Assignment: The Lessee may not transfer or assign this Lease or let or sublet the whole or any part of the Leased Premises to anyone without the prior written consent of the Lessor.

11. Illegal Uses: Lessee will not make or permit to be made any illegal use of the Leased Premises or any use thereof constituting a public nuisance, and shall keep the Leased Premises in a neat and orderly manner and shall comply with all applicable building codes and health regulations and with the rules and regulations of any governmental authority. All water and sanitary sewer facilities shall be designed, installed, constructed, maintained and operated only with the approval of the applicable governmental authority.

12. Continuing Obligation of Compliance with Regulations: Lessee shall be responsible for compliance with any federal, state or local law, ordinance or regulation applicable to the Leased Premises or the activities and uses of Lessee thereof, and pertaining to health, safety, environment (air, water or land), or aesthetics which have been adopted or enacted as of the termination date of this Lease. Upon request by Lessor, Lessee shall re-enter the Leased Premises at any time after the termination or expiration of this Lease and perform such operations necessary for compliance with then applicable law, ordinances or regulations at the termination date. Lessee shall be relieved of any responsibility for compliance under this Article 12 if, during the lease term or after the termination or expiration date of this Lease, Lessor causes noncompliance by changing conditions upon the Leased Premises, including but not limited to land use patterns, or causing or allowing any third party to do so.

13. Maintenance: Lessee is to maintain all buildings and improvements on the site in a sound condition and in neat appearance and pay all costs for said maintenance. In the event Lessee fails to properly maintain all buildings and improvements, then Lessor may, as its only remedy, terminate this Lease and

retake possession of the Leased Premises.

14. Hazardous Materials:

(a) Lessee shall not bring to or handle, store, dispense, transport or locate on or about the Leased Premises any chemical substances, asbestos, oil, gasoline, other petroleum products, formaldehyde, PCB's, or any toxic, carcinogenic, radioactive or hazardous wastes, materials, substances or contaminants (collectively "Hazardous Materials"), without Lessor's prior written consent, which consent shall not be unreasonably withheld.

(b) While handling, transporting or storing any Hazardous Materials on or about the Leased Premises, Lessee shall act in full compliance with all applicable federal, state and local laws, ordinances and regulations.

(c) Lessee shall give Lessor immediate written notice of any problem, spill, discharge or threatened discharge of or relating to Hazardous Materials on or about the Leased Premises, and of any private or governmental investigation relating to Hazardous Materials on or about the Leased Premises. Lessor shall have the right to participate in and approve any environmental assessment or environmental clean-up plan for the Leased Premises. Lessee, its employees, agents and contractors, shall fully cooperate with any and all federal, state and local governmental officials having jurisdiction over the Leased Premises in resolving any environmental problem.

(d) Lessee's failure to comply strictly with the provisions and mandates of this Article 14 shall constitute a breach in this Lease, entitling Lessor to terminate this Lease and to exercise any other rights and remedies available to Lessor hereunder or otherwise.

15. Taxes and Assessments: Lessee shall be responsible for all ad valorem property taxes (real or personal) or payments in lieu thereof as may be due during the lease term on the Leased Premises, any buildings or improvements thereon and for personal property of Lessee.

16. Insurance by Lessee: Lessee agrees that, at its own cost and expense, it shall obtain and maintain in force during the term of this Lease, providing satisfactory evidence thereof to Lessor, one or more policies of general public liability insurance from the State Insurance Reserve Fund or, where applicable and authorized, from a reputable insurance company authorized to do business in South Carolina, providing coverage for any and all risks of liability associated with Lessee's occupancy and use of the Leased Premises and the activities authorized hereunder, to the full extent and limit of Lessee's liability, as now or hereinafter

provided for by law. Additionally, it is agreed by and between the parties hereto that Lessor is and shall be considered to be a "volunteer" within the meaning of Sections 8-25-10, et seq., Code of Laws of South Carolina (1976) by reason of its provision of the lands and improvements which constitute the Leased Premises, without any financial gain, to Lessee herein, an agency of the State of South Carolina, and that is the intent of the parties that Lessor thereby enjoy the protection of the sovereign immunity of this State to the same extent as employees hereof as provided for in Section 8-25-40. Accordingly, Lessee agrees to obtain in writing from the State's Insurance Reserve Fund a certification of Lessor's status as a "volunteer" herein and an agreement that such Fund will, throughout the lease term, adjust, appear and defend, and provide insurance coverage in favor of Lessor, to the same extent and manner as is provided to employees of the State, for and against claims, demands, actions and causes of action for personal injury, death or property damage caused by, arising from or relating to the Leased Premises and the parties' activities thereon.

17. Surrender of Lease: The voluntary or other surrender of this Lease by Lessee, or a mutual cancellation thereof, shall not work a merger and shall, at the option of Lessor, terminate all or any existing subleases or subtenancies, or may at the option of Lessor, operate as an assignment to it of any or all such subleases or subtenancies.

18. Event of Default:

(a) The following events ("Events of Default") shall be deemed to be events of default by Lessee under this Lease:

(i) If Lessee shall fail to pay any sum of money payable hereunder on the date the same is due and such failure shall continue for a period of forty-five (45) days after due written notice thereof to Lessor; or

(ii) If Lessee fails to comply with any term, provision or covenant of this Lease other than the payment of any sum of money, and shall not cure such failure within forty-five (45) days after due written notice thereof to Lessee; provided, however, if Lessor, in its sole discretion, determines that such failure cannot be cured within forty-five (45) days, Lessee shall be in default under the Lease if Lessee fails to commence to cure such failure within the same forty-five (45) day period or thereafter fails to act to diligently and promptly cure such failure; or

(iii) If Lessee voluntarily discontinues or voluntarily ceases to use the Premises and the Improvements for the Permitted Use or closes its operations on the Premises for any period greater than ninety (90) days.

(b) Upon the occurrence of an Event of Default hereunder, Lessor shall be entitled to pursue any one or more of the following remedies without notice or demand.

(i) Terminate this Lease and Lessee's right of possession of the Premises in which event Lessee shall immediately surrender the Premises to Lessor, and if Lessee fails to do so, Lessor may, without prejudice to or any other remedy which it may have for such Event of Default, enter upon and take possession of the Premises in a manner as provided by laws.

(ii) Bring suit for the collection of any amounts for which Lessee is then in default, or for the performance of any other covenant or agreement by which Lessee is bound, with or without entering into possession or terminating this Lease.

(c) In the event Lessor elects to terminate this Lease by reason of the occurrence of an Event of Default, this Lease shall terminate and come to an end as if that were the date originally fixed herein for the expiration of the term hereof. Notwithstanding such termination, Lessee shall be liable for and shall pay to Lessor all indebtedness accrued hereunder to the date of such termination.

(d) In case of any Event of Default or breach by Lessee, Lessee shall also be liable for (i) the costs of removing and storing Lessee's or any other occupant's personal property; and (ii) all expenses incurred by Lessor in enforcing or defending Lessor's rights and/or remedies, including reasonable attorney's fees.

19. Condemnation: If the whole or any part of the Leased Premises is taken or condemned by any competent authority for any public use or purpose, then this Lease shall automatically terminate as to the portion taken as of the date said title shall be taken. If a portion of the Leased Premises shall be taken so as to render the remainder thereof unusable for the purposes for which the Premises were leased, then this Lease shall terminate as of the date said title shall be taken. In the event that any portion of the Leased Premises shall be taken or this Lease shall be terminated as a result of taking of the whole or a portion of the Leased Premises, Lessee shall have no claim against Lessor for the value of any unexpired portion of the lease term. Lessor shall be entitled to the entire award given, including any special damages, except that, as to any portion of payment received by way of just compensation which is attributable to the value, if any, of any capital improvements, taken or damaged, Lessee shall be entitled to receive a pro-rata share thereof based on the percentage that is funding contribution therein bears to the total capital costs thereof. In the event that either party should disagree with the valuation given within any award to any improvement taken or damaged, or be unable to agree between themselves as to such value,

the parties shall jointly petition the jury, commission or other trier-of-fact, by way of appeal or otherwise, to apportion their award so as to separately set forth the contributing value, if any, of each improvement taken or damaged.

20. Severability: The provisions hereof are independent covenants and should any provision or provisions contained in this Lease be declared by a court or other tribunal of competent jurisdiction to be void, unenforceable or illegal, then such provision or provisions shall be severable and the remaining provisions hereof shall remain at Lessor's option in full force and effect.

21. Leased Premises Subject to FERC Oversight: The Leased Premises is designated as public areas under the terms of Lessor's license for the Keowee-Toxaway Hydroelectric Project, Lessee agrees that the following additional terms and conditions shall apply:

(a) Compliance with State, Federal and Local Laws: Lessee agrees that in its use of the Leased Premises as herein provided, Lessee will comply with Order No. 313 of the FERC, all regulations or directives issued by the FERC and all other applicable state, federal and local laws as well as all ordinances, rules, regulations and sanctions of any regulatory body or governmental agency (state, federal or local) having jurisdiction in the premises, and Lessee's use of the aforesaid lands will not endanger health, create a nuisance or otherwise be incompatible with the overall recreational use of the Keowee-Toxaway Development, FERC Project No. 2503.

(b) Approval by FERC: This Lease is subject to the prior written approval of the FERC, provided, however, that if said FERC declines to approve this instrument, then and in that event, it shall become void and of no legal force and effect whatsoever.

(c) Reservation of Use: The right to use the land which is the subject of this Lease for project purposes (not inconsistent with the activities and purposes of this lease) is hereby reserved to the FERC project licensee, its successors and assigns.

(d) Protection of Environment: All necessary precautions shall be taken during construction and subsequent operation and maintenance of the activity to protect and enhance the environmental values of any affected lands and waters of Project No. 2503.

(e) Archaeological Resources: If any archaeological resources are discovered during construction, construction shall be halted and the State Historic Preservation Officer shall be contacted to determine what measures, if any, are needed to protect or salvage the resources.

22. Parties Bound: The covenants and conditions herein contained shall, subject to the provisions as to assignment, transfer and subletting, apply to and bind the heirs, successors, executors, administrators and assigns of all the parties hereto.

23. Notice: Wherever in this Lease it shall be required or permitted that notice be given by either part to this Lease to the other, such notices must be in writing and must be given personally or forwarded by certified mail addressed as follows:

To Lessor: Duke Power Company  
ATTN:Mgr. Hydro Production & Lake  
Management  
P. O. Box 1006  
Charlotte, NC 28201-1006

To Lessee: Chairman, Oconee County Commission

Such addresses may be changed from time to time by notice given hereunder.

24. Time of the Essence: Time is of the essence of this Lease and all of its provisions.

25. Governing Law: This Agreement shall be governed by the laws of the State of South Carolina.

IN WITNESS WHEREOF, the parties hereinabove have executed this Lease on or as of the day and year first above written.

LESSOR:

ATTEST:

Phyllis J. Simpson  
Assistant Secretary

DUKE POWER COMPANY

By: [Signature]  
Vice President

LESSEE:

OCONEE COUNTY

By: \_\_\_\_\_  
Its: \_\_\_\_\_



# Oconee County Sewer Commission

623 Return Church Road • Seneca, South Carolina 29678  
803-972-3900

## FACT SHEET

### SLUDGE DISPOSAL

- Oconee County Sewer Commission's Coneross Creek Wastewater Treatment Facilities generates approximately 3,000 tons of sludge at 15% solids per year.
- Sludge disposal is in the Palmetto Landfill in Spartanburg.
- January 1980 through October 8, 1993 sludge disposal was in the Oconee County landfill.
- Oconee County landfill charges for fiscal '92-'93 were \$12,285.
- October 9, 1993 - November 29, 1994 OCSC expended \$162,297.61 in sludge disposal and transportation.
- OCSC has worked to find a means of reducing these costs and solving the task of sludge disposal.

### SLUDGE DRYING

- Sludge drying reduces the weight and volume of the sludge, which will in turn reduce disposal costs.
- Heat drying also kills pathogenic bacteria in the sludge, thereby increasing the number of alternatives available for final disposal.
- OCSC has selected the Envirofab dryer to help solve the sludge disposal problem.
- The process is a heat drying process under vacuum, and is patented.
- This equipment is expected to cost \$795,952.50.

OCONEE COUNTY SEWER COMMISSION - Meeting Minutes November 7, 1994

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The meeting was held in the conference room of the Coneross Creek Wastewater Treatment Plant. Commission members present were: Howard S. Adams, Chairman; Messrs. Jerry Opperman, Tommy Grant, Wallace McMahan, John Hamrick, Tommy Crumpton, Dewitt Martin, and Rhett Smith (arriving at 6:12 p.m.). Mr. Lamar Bailes was absent. Also present were Mark Harber from Jordan, Jones & Goulding, Inc.; Richard Hartis and Dick Smith from Envirofab; and Bob Winchester and Kaye Hirst from OCSC.

1. The meeting was called to order at 6:02 p.m. by Chairman Adams. Invocation was given by Mr. Grant.
2. The minutes of the October 3, 1994 meeting were reviewed. Motion to accept these minutes was made by Mr. Grant; seconded by Mr. Martin; passed unanimously.
3. SLUDGE DRYER - (Richard Hartis & Dick Smith - Envirofab)

Mr. Smith passed out information relative to the proposed sludge dryer. Mr. Hartis explained that the last time they had met with the Commission they were to try to secure a performance bond for the dryer project. Their agents went through seven bonding companies trying to obtain bonds. Each source turned them down because they offered a one-source, one-of-a-kind patented piece of equipment. The way a performance bond works is that if Envirofab were unable to complete the equipment, another company would have to do so. Since this is a one-source, one-of-a-kind piece of equipment, there is not a designated company to finish it. Therefore, the bonding companies refused to bond this machine.

Mr. Hartis made an offer that he said would give Oconee County even greater security than a performance bond, and that would be for Envirofab to completely finance the project. They would build the building, install the equipment, and run the equipment for six months before Oconee County would have to pay anything. At the end of the six months when the equipment does exactly what they say it will do, then the Sewer Commission would pay for the building and the equipment. If the machine doesn't do what is stated on the specifications, Envirofab will remove the equipment from the site and leave the Sewer Commission the building. They are willing to put up the money to get it running and let it run the six months period because they know it works, and are willing to take all of the risk in it. They are not asking us to put up any money.

Mr. Hamrick asked if the interest charges to which the proposal letter (attached) refers means one-half of the interest on the total cost during the six month period. Mr. Hartis responded, "Yes," and it was clarified that it meant one-half the interest on whatever the rate was during that six month period. He added that they were informed today that the rate was 6.95%. Mr. Hamrick stated that then

we were talking 3.5%, basically.

Mr. Hartis also explained that if their company should go out of business, they can designate another company with a conditional license, that that company would be licensed to service the machine. They have a company that has been in the wastewater industry since 1938 that is very well known that has verbally agreed to do this.

Mr. Crumpton made a motion to take this matter back to County Council with a recommendation for approval, along with a contract with the new proposal and guarantees; seconded by Mr. Hamrick; passed unanimously. Mr. Hartis added that Hilton Head waived bond on their machine.

Mr. Rhett Smith arrived at 6:12 p.m.

Mr. Hartis said that they could have the contracts ready by November 15th. It was clarified that at the end of the six months of operation the machine would be paid for in full by the Sewer Commission, plus one-half of the interest.

4. FACILITIES COMMITTEE REPORT - (Tommy Grant)

Mr. Grant reported that the Committee met on October 19, 1994. A copy of those minutes is attached. The Committee presented the following:

A) Sludge Dryer - Mr. Grant reported that the Committee discussed the dryer contract, and specifically the building which is proposed to be furnished with the unit. Members are requesting a design plan be submitted for review, and they also want an option to delete the building and deduct out the price from the contract. The price of the brick veneer building is \$74,500. Mr. Hamrick suggested quoting the dryer with and without the building. The Sewer Commission can contract with another contractor to build the building, and Envirofab will pay it. The total price of the sludge dryer including the building is \$758,050.00 + \$37,902.50 tax, for a total of \$795,952.50. The building allowance is \$74,500 without tax. If the cost of the building is less than \$74,500, the difference will be deducted from the \$795,952.50.

The Commission discussed going to the December 5th Oconee Council meeting. It was also clarified that all of the other conditions proposed previously from Envirofab will still apply. Mr. Hartis and Mr. Smith stated that they would attend the Council meeting also. They left the meeting at 6:35 p.m.

5. PLANT CONSTRUCTION UPDATE - (Mark Harber, JJ&G)

Mr. Winchester handed out a progress report submitted by Mr. Harber who went over the items listed (copy attached). The contractor anticipates finishing the project by September 1, 1995. (The contract date is November 22, 1995).

OCONEE COUNTY  
PURCHASE ORDER

PO #: 0030628

DATE: 12/07/94

BID #:

VENOR:  
IPTON & YOUNG CONSTRUCTION CO  
NC,  
ROUTE 1 BOX 343A  
SURNSVILLE, NC 28714

ACCOUNT AMOUNT  
010-022-00150-22881 .00

TOTAL ==> .00

BILL TO:  
OCONEE COUNTY PURCHASING DEPT.  
208 BOOKER DRIVE  
ALHART, SC 29531  
PHONE: 803-638-4141  
FAX: 803-638-4142

SHIP TO:  
SUPERVISOR  
PHONE:

NOTICE TO VENDORS: This order is given for immediate acceptance by the seller. Items promptly notified to the contrary  
purchaser will assume that the seller accepts the order as written and that he will make prompt delivery as or before the date  
specified. Oconee County will not be bound by the total listed on this purchase order. All contracts, all of E.O. Declaration  
unless specified in the purchase order. Seller shall provide a copy of the original invoice accompanied by one copy of all  
shipping papers. Purchaser reserves the right to cancel the entire order or any portion thereof if the seller fails to make  
delivery as specified. No change in any way allowed except as written authority of the County Purchasing Dept.

ITEMS	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
			FEDERAL PROJECT CONTINUATION OF CONTRACT W-9 A SPECIFICATIONS OF WHICH ARE HEREBY MADE A PART OF THIS PURCHASE ORDER BY REFERENCE. ROADS TO BE DONE AND APPROXIMATE COSTS, WHICH ARE DETAILED BY THE ATTACHED SKETCHES, ARE AS FOLLOWS:		
1	1.00	EA	REMOVE AND REPLACE PIPE AND RIP-RAP COBB BRIDGE ROAD #2200.00		
2	1.00	EA	REPAIR AS ABOVE \$3,800.00		
3	1.00	EA	RIP-RAP DUCK POND \$8,500		
4	1.00	EA	REP UNIVERSITY DR \$1,000		
5	1.00	EA	REMOVE AND REPLACE PIPE AND RIP-RAP WILLIAMS FARM ROAD \$3,840.00		
6	1.00	EA	REMOVE AND REPLACE PIPE AND RIP-RAP KELLY MILL ROAD \$3,786.00		
7	1.00	EA	REMOVE AND REPLACE PIPE AND RIP-RAP CARMEL RIDGE ROAD \$4,250.00		
8	1.00	EA	REPAIR LUSK ROAD \$500.00 **OCONEE COUNTY RESERVES THE RIGHT TO ADD ADDITION ROADS; HOWEVER THE TOTAL		

SEE ATTACHED FOR MORE ITEMS

OCONEE COUNTY  
PURCHASE ORDER

PC #: 0038528

DATE: 12/07/94

BID #:

DETAIL ITEMS CONTINUED:

ITEM#	QUANTITY UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
		PURCHASE ORDER SHALL NOT EXCEED \$50,000.00. OCONEE COUNTY SHALL SUPPLY ALL PIPE AND APPROPRIATE FOR THIS PROJECT.		
		--APPROVED COUNTY COUNCIL MEETING DECEMBER 5, 1994		
		SUBTOTAL		
		S/D. TAX		
		FREIGHT		
		TOTAL		

DELIVERY SHALL BE F.O.B. DESTINATION WITHIN 60 DAYS OF PURCHASE ORDER DATE

SIGNED: *[Signature]*  
COUNTY ENGINEER

OCONEE COUNTY

		<u>APPROX COST</u>
(1)	Remove and replace pipe and Rip-Rap Cobb Bridge Rd.	\$2,200.00
(2)	Remove and replace pipe and Rip-Rap Cobb Bridge Rd.	\$3,000.00
(3)	Rip-Rap Duck Pond Rd.	\$15,500.00
(4)	Repair Road University Dr.	\$1,000.00
(5)	Remove and replace pipe and Rip-Rap Williams Farm Rd.	\$4,040.00
(6)	Remove and replace pipe and Rip-Rap Kelly Mill Rd.	\$4,010.00
(7)	Remove and replace pipe and Rip-Rap Carmel Ridge Rd.	\$4,250.00
(8)	Repair Pipe Lusk Rd.	\$ 500.00
TOTAL		\$34,500.00
Other Roads		\$15,500.00
		\$50,000.00

OCONEE COUNTY

**COPY**

	<u>APPROX COST</u>
(1) Remove and replace pipe and Rip-Rap Cobb Bridge Rd.	\$2,200.00
(2) Remove and replace pipe and Rip-Rap Cobb Bridge Rd.	\$3,000.00
(3) Rip-Rap Duck Pond Rd.	\$15,500.00
(4) Repair Road University Dr.	\$1,000.00
(5) Remove and replace pipe and Rip-Rap Williams Farm Rd.	\$4,040.00
(6) Remove and replace pipe and Rip-Rap Kelly Mill Rd.	\$4,010.00
(7) Remove and replace pipe and Rip-Rap Carmel Ridge Rd.	\$4,250.00
(8) Repair Pipe Lusk Rd.	\$ 500.00
TOTAL	<hr/> \$34,500.00
Other Roads	\$15,500.00
	<hr/> \$50,000.00

CONSTRUCTION SPECIFICATION

61. LOOSE ROCK RIPRAP

**COPY**

1. SCOPE

The work shall consist of the construction of loose rock riprap revetments and blankets, including filter layers or bedding where specified.

2. MATERIALS

Rock for loose rock riprap shall conform to the requirements of Material Specification 523 or, if so specified shall be obtained from designated sources. It shall be free from dirt, clay, sand, rock fines and other materials not meeting the required gradation limits.

At least 30 days prior to delivery of rock from other than designated sources, the Contractor shall designate in writing the source from which he intends to obtain the rock and information satisfactory to the Contracting Officer that the material meets the requirements of the contract. The Contractor shall provide the Engineer free access to the source for the purpose of obtaining samples for testing. The size and grading of the rock shall be as specified in Section 9 of this specification.

Rock from designated sources shall be excavated, selected and processed as necessary to meet the quality and grading requirements in Section 9 of this specification. The rock shall conform to the specified grading limits when installed in the riprap.

Filter or bedding materials when required, shall, unless otherwise specified, conform to the requirements of Material Specification 521.

3. SUBGRADE PREPARATION

The subgrade surfaces on which the riprap or bedding course is to be placed shall be cut or filled and graded to the lines and grades shown on the drawings. When fill to subgrade lines is required, it shall consist of approved materials and shall conform to the requirements of the specified class of fill.

Riprap shall not be placed until the foundation preparation is completed and the subgrade surfaces have been inspected and approved by the Engineer.

4. EQUIPMENT-PLACED ROCK RIPRAP

The rock shall be placed by equipment on the surfaces and to the depths specified. The riprap shall be constructed to the full course thickness in one operation and in such a manner as to avoid serious displacement of the underlying materials. The rock shall be delivered and placed in a manner that will insure that the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks and spalls filling the voids between the larger rocks.

Riprap shall be placed in a manner to prevent damage to structures. Hand placing will be required to the extent necessary to prevent damage to the permanent works.

5. HAND-PLACED RIPRAP

The rock shall be placed by hand on the surfaces and to the depths specified. It shall be securely bedded with the larger rocks firmly in contact one to another. Spaces between the larger rocks shall be filled with smaller rocks and spalls. Smaller rocks shall not be grouped as a substitute for larger rock. Flat slab rock shall be laid on edge.

6. FILTER LAYERS OR BEDDING

When the drawings specify filter layers or bedding beneath riprap, the filter or bedding material shall be spread uniformly on the prepared subgrade surfaces to the depth specified. Compaction of filter layers or bedding will not be required, but the surface of such layers shall be finished reasonably free of mounds, dips or windrows.

7. TESTING

The Engineer will perform such tests as are required to verify that the riprap, filter, and bedding materials and the completed work meet the requirements of the specifications. These tests are not intended to provide the Contractor with the information he needs to assure that the materials and workmanship meet the requirements of the specifications, and their performance will not relieve the Contractor of the responsibility of performing his own tests for that purpose.

~~8. MEASUREMENT AND PAYMENT~~

~~Method 1 For items of work for which specific unit prices are established in the contract, the volume of each type of riprap, including filter layers and bedding, will be measured within the specified limits and computed to the nearest cubic yard by the method of average cross-sectional end areas. Payment for each type of riprap, including filter layers and bedding, will be made at the~~

8. MEASUREMENT AND PAYMENT

For items of work for which specific unit prices are established in the contract, the quantity of each type of riprap placed within the specified limits will be measured to the nearest ton by actual weight. For each load of rock furnished and placed as specified (Bid Item 2), the Contractor shall furnish to the Engineer a statement-of-delivery ticket showing the weight, to the nearest 0.1 ton, of rock in the load.

Payment for each type of riprap will be made at the contract unit price for that type of riprap. Such payment will be considered full compensation for all labor, materials, equipment and all other items necessary and incidental to the completion of the riprap.

Compensation for any item of work described in the contract but not listed in the bid schedule will be included in the payment for the item of work to which it is made subsidiary. Such items and the items to which they are made subsidiary are identified in Section 9 of this specification.

9. ITEMS OF WORK AND CONSTRUCTION DETAILS

Items of work to be performed in conformance with this specification and the construction details therefore are:

Bid Item 2, Loose Rock Riprap

- a. This item consists of preparing the sub-grade and furnishing and placing geotextile and loose rock riprap on the banks of the channels as shown on the sketch or staked by the Engineer.
- b. Riprap is to be "dumped riprap" and "one-man stone". The type riprap is designated on sketches of work to be done or in the specifications that follow.
- c. The Engineer will designate the limits of riprap placement by means of flags, stakes, and/or other suitable markings. The locations at which riprap will be placed are:

*(Writeup for what you want Done Here)*  
~~(1) At Site 1 (Lusk Road) riprap is to be placed around the pipe as shown on the sketch. Banks are to be sloped to a minimum of 2:1 and riprap placed to the top of bank elevation. Estimated quantity of "dumped" riprap is 140 tons.~~

~~SCS, SOUTH CAROLINA~~

~~61-3~~

~~Beryl/EWP - Ocone 6  
August 1994~~

placed to a height of six feet. An estimated 120 tons of "dumped" riprap will be needed at this site.

- (13) At Site 11 (McGee Road), the entrance and outlet of the existing culvert will be protected with riprap. Banks are to be sloped to a minimum of 2:1 and riprap placed to a height of five feet. An estimated 100 tons of "dumped" riprap will be needed at this site.
- (14) At Site 15 (Water Works Road) riprap is to be placed around the entrance and outlet of new 48 inch concrete pipe to be installed (See Specification EWP 402 for details). Banks are to be sloped to a 2:1 minimum and riprap placed to top of bank elevation. An estimated 60 tons of "dumped" riprap will be required at this site.
- (15) At Site 13 (Tabor Road) riprap is to be placed around the entrance and outlet of the new 48 inch corrugated metal pipe to be installed (See Specification EWP 402 for details). Banks are to be sloped to a minimum of 2:1 and riprap placed to a height of five feet. An estimated 80 tons of "dumped" riprap will be needed at this site.
- (16) At Site 14 (Jenkins Bridge), the corners of the bridge will be protected with riprap. An estimated 20 tons of "dumped" riprap shall be placed at each corner of the bridge for a total of 80 tons.
- (17) At Site 16 (Rocky Fork Road) three areas are to be protected with riprap. Two mud slides approximated 50 ft. long are to be sloped to a minimum 2:1 and covered with riprap to a height of approximately 15 feet. At the other site, an eroded hole at the outlet of a 15 inch pipe will be filled with riprap and additional riprap placed at the outlet of the 15 inch pipe. The outlet of the 15 inch concrete pipe is to be extended one pipe joint prior to placement of riprap. Pipe is to be furnished by the county.

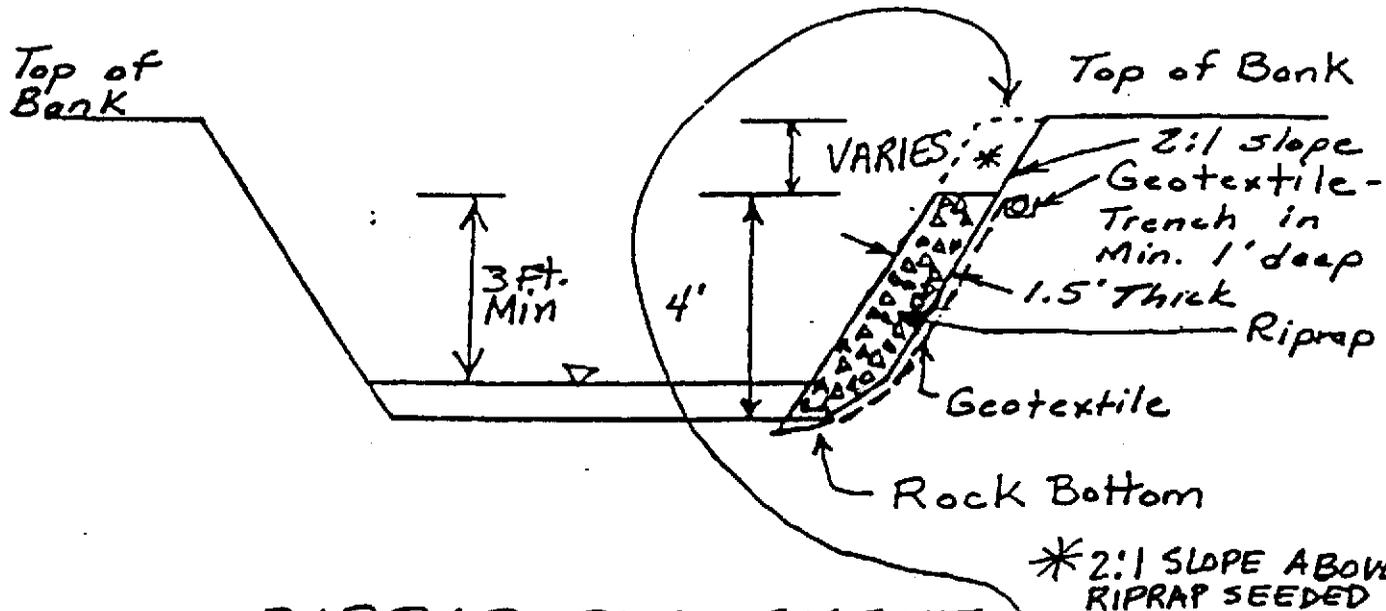
- d. "Dumped Riprap" stone shall meet SCDHPT Specification 804.05. Stone used in dumped riprap shall be a quarried stone of reasonably uniform grading from the larger to smaller pieces with the larger pieces preferably not above 24 inches in size. Prior to initial delivery of rock riprap to the site, the contractor will obtain the Engineer's approval of the riprap gradation.

- e. "One man stone" shall meet SCDHPT Specification 804.03 except gradation shall be from 25 - 150 pounds with at least 50 percent of the pieces weighing more than 60 pounds. Prior to initial delivery of rock riprap to the site, the contractor shall obtain the Engineer's approval of the riprap gradation.
- f. The requirement in Section 2 for the Contractor to designate the source of the riprap at least 30 days prior to delivery of the rock is waived. Oconee County will furnish all rock riprap. The Contractor shall haul and place all riprap.
- g. Riprap shall be hand placed within five (5) feet of any structure or pipe.
- h. Excavation and earthfill required to prepare the sub-grade for the riprap are subsidiary to these bid items. Furnishing and placing the geotextile under the riprap is subsidiary to these bid items. See Construction Specification 95 for details.

-END SPECIFICATION EWP 61-

STATE	South Carolina	PROJECT	EWP Project		
BY	WJ Key	DATE	4/6/94	CHECKED BY	DATE
SUBJECT	Riprap Placement				JOB NO.
					SHEET _____ OF _____

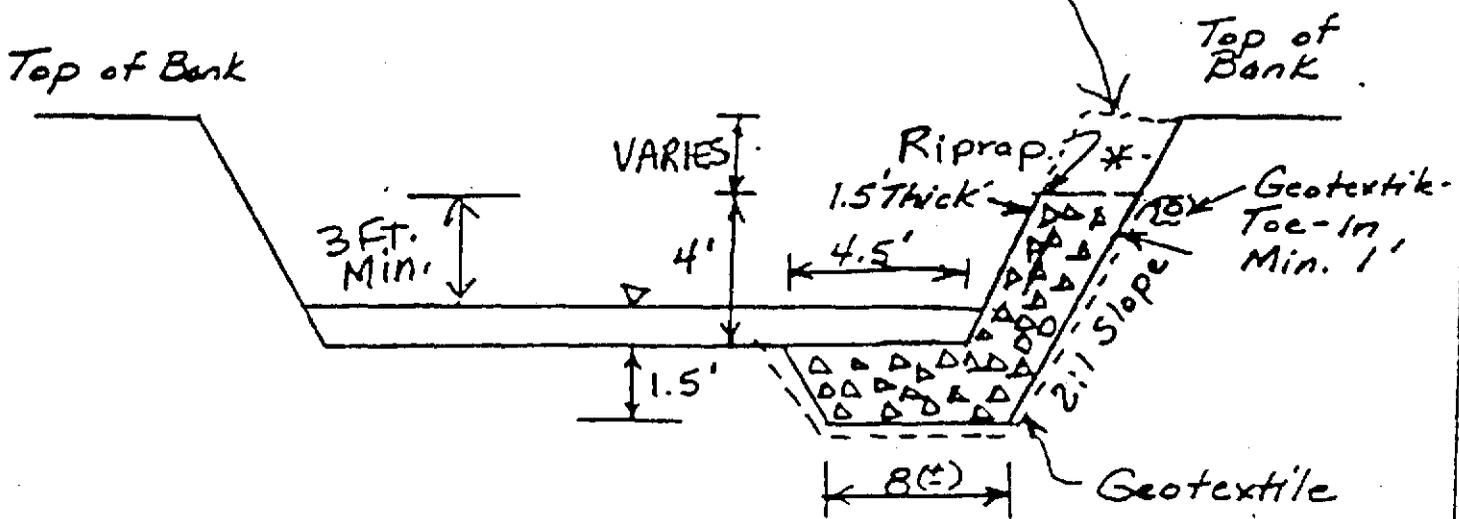
## SECTION 1



### RIPRAP PLACEMENT WITH ROCK BOTTOM

(OR) RIPRAP Extends To Top of Channel Bank (See Specifications)

## SECTION 2



### RIPRAP PLACEMENT WITH SAND BOTTOM

Close

**COPY**

①

Remove and Replace pipe 50' - 36" CMP

20'x8'  
40 TON

20 TONS

60 TONS

TIPTON & Young  
by J. Dyer (V.P.)

Pipe \$ 1000.00  
Rock @ \$ 20.00 per ton  
1200.00 Rock

TOTAL \$ 2,200.00

Cable  
Bulge Rod

②

Remove and replace pipe  
w/ 50' - 48" CMP

20'x10' h

20'x10' h DIS (50 TONS)

Pipe \$ 1000.00  
DIS 50 TONS

100 TONS

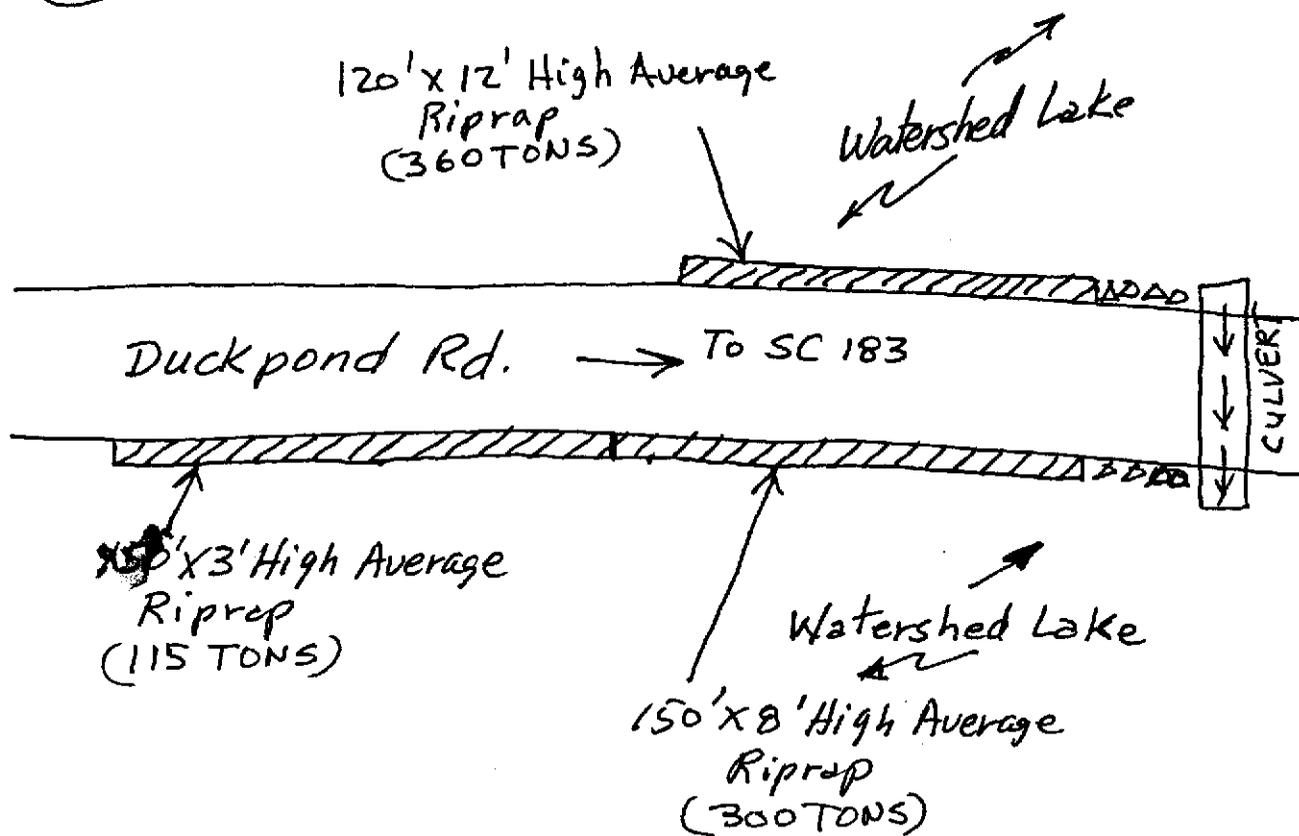
Rock @ \$ 20.00 per ton  
\$2000.00

TOTAL \$ 3000.00

County to haul trash, back fill  
and Crusherman on all jobs.

blow  
3

**COPY**



TOTAL "DUMPED" RIPRAP - 775 TONS

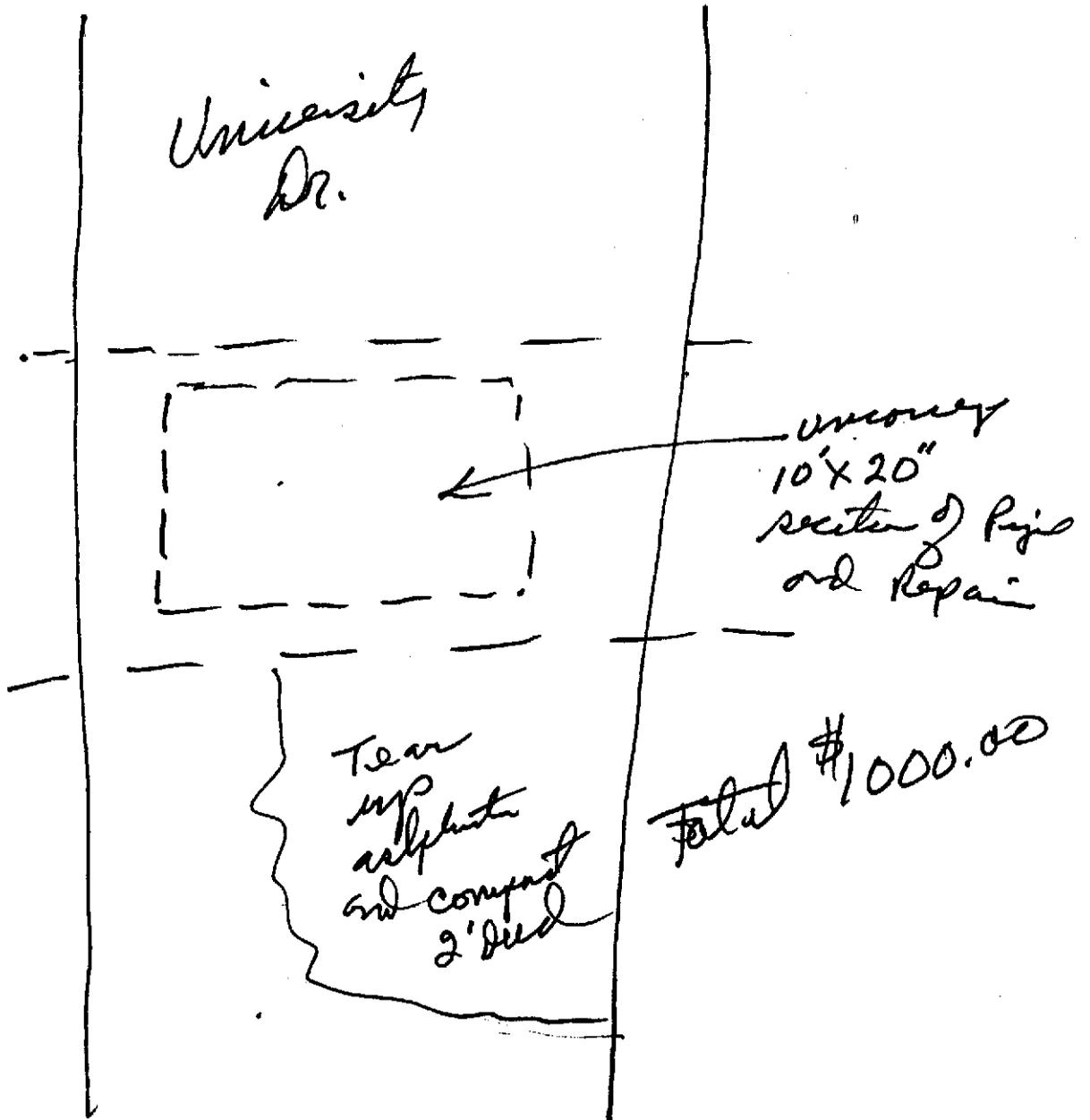
Rock @ \$20.00 per ton  
Total \$15,500.00

Tipton & Young  
by: John Tipton (u.p.)

Score

(4)

**COPY**



University  
Dr.

uncover  
10'x20"  
section of pipe  
and repair

Tear  
up  
asphalt  
and compact  
2' deep

Total \$1000.00

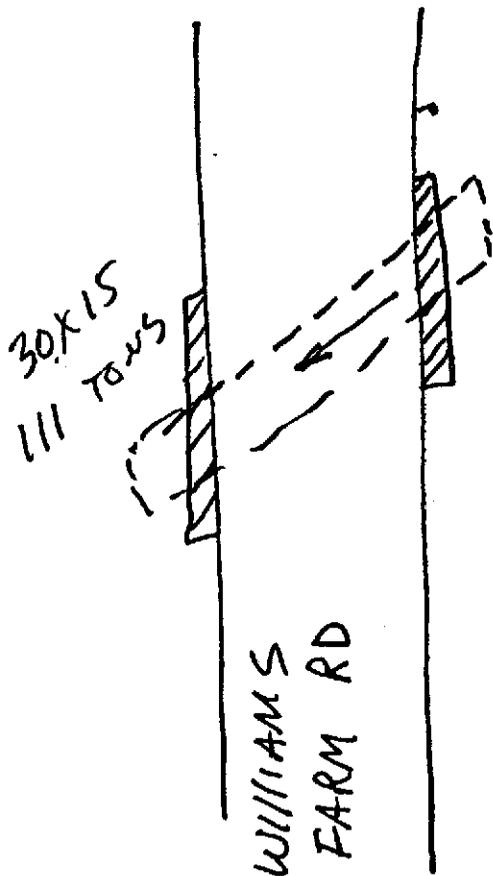
T. P. TOON & Young

by John P. [Signature] (U.P.)

(5)

**COPY**

# 61 Remove and Replace  
w/ 80-48" CMP



30x15  
111 TONS

TOTAL 222 TONS  
 - 55 FED  
 -----  
 167 + CO to pay

Pipe \$1500.00

Rock @ \$2000 per ton  
 \$2340.00

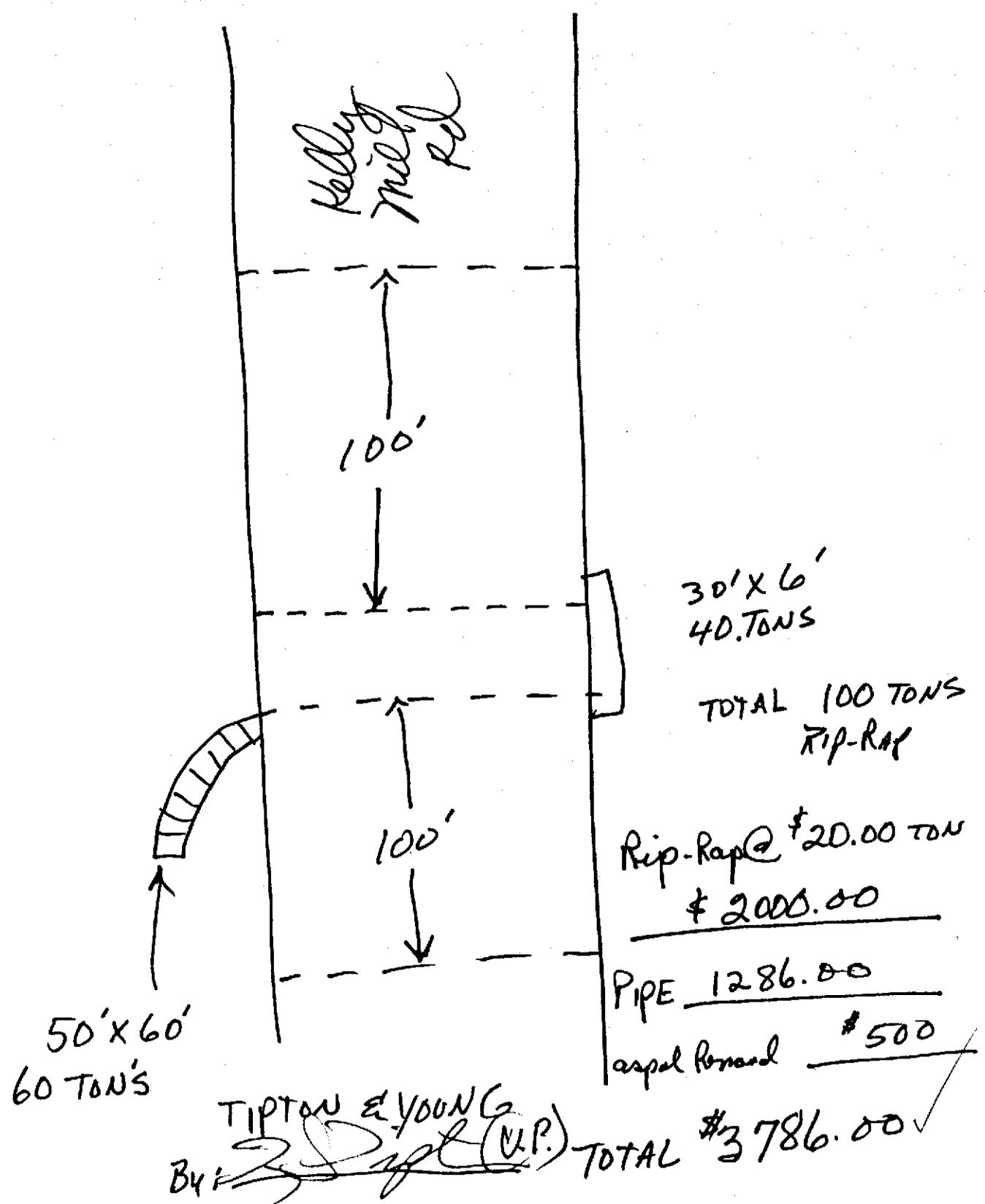
167  
 20  
 -----  
 2340  
 TOTAL \$ 3840.00

KIPTON & young

By: [Signature] (V.P.)

020111  
# 6

**COPY**



Kelly  
Mill  
Rd

100'

30' x 6'  
40 TONS

TOTAL 100 TONS  
RIP-RAP

Rip-Rap @ \$20.00 TON  
\$2000.00

PIPE 1286.00

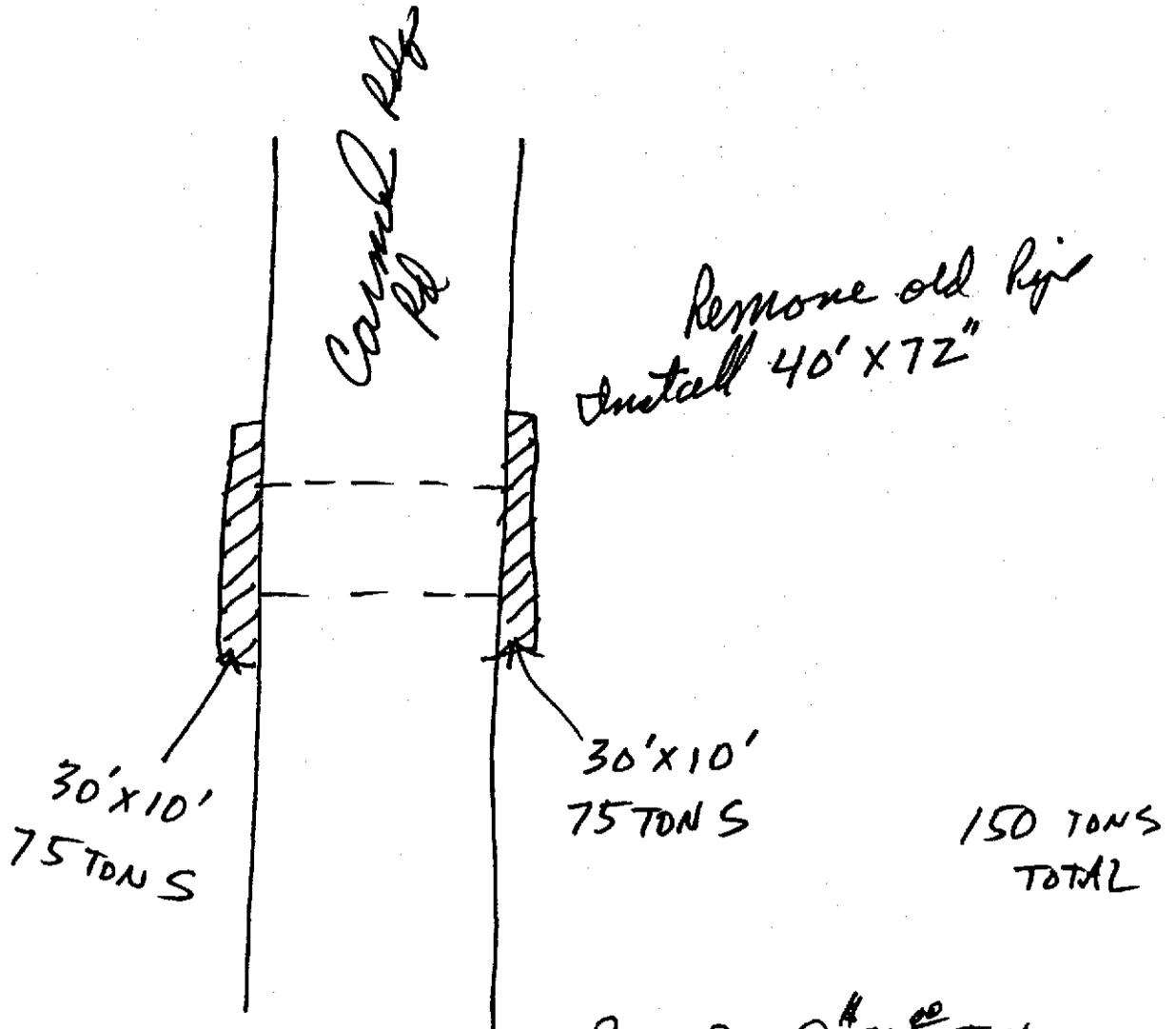
asphalt Road \$500

50' x 60'  
60 TONS

TIPTON & YOUNG  
By: [Signature] (U.P.) TOTAL \$3786.00 ✓

Drawn  
# 7

**COPY**



Rip-Rap @ \$20<sup>00</sup> TON  
\$ 3000.00

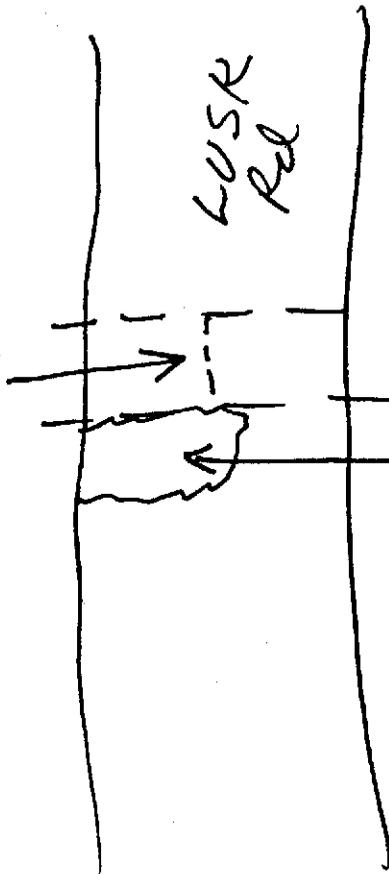
PIPE \$ 1250.00

TOTAL \$ 4250.00 ✓

TIPTON & YOUNG  
by Jerry D. [Signature] (V.P.)

clone COPY

# 8



Excavate  
and compact  
to Repair Piping  
Problem  
# 500.00 ✓

TIPTON & young  
by ~~John D. Tipton~~ (V.P.)

OCONEE COUNTY

		<u>APPROX COST</u>
(1)	Remove and replace pipe and Rip-Rap Cobb Bridge Rd.	\$2,200.00
(2)	Remove and replace pipe and Rip-Rap Cobb Bridge Rd.	\$3,000.00
(3)	Rip-Rap Duck Pond Rd.	\$15,500.00
(4)	Repair Road University Dr.	\$1,000.00
(5)	Remove and replace pipe and Rip-Rap Williams Farm Rd.	\$4,040.00
(6)	Remove and replace pipe and Rip-Rap Kelly Mill Rd.	\$4,010.00
(7)	Remove and replace pipe and Rip-Rap Carmel Ridge Rd.	\$4,250.00
(8)	Repair Pipe Lusk Rd.	\$ 500.00
TOTAL		\$34,500.00
Other Roads		\$15,500.00
		\$50,000.00

## MEMORANDUM

**TO: GREG BLOUNT**

**FROM: TIM CAIN**

**RE: OCONEE COUNTY SEWER COMMISSION  
BEACON MANUFACTURING COMPANY**

**DATE: NOVEMBER 28, 1994**

Attached is the most recent draft of the proposed Agreement and Consent Order between Oconee County and Beacon Manufacturing Company. It is my understanding, from discussions with the General Superintendent, that the Commission has approved the Agreement and Consent Order in concept and directed me to make some additional changes to Paragraph 5, which I have made.

If the document meets with Beacon's approval, I can present it to the Commission for final approval on Monday, December 5, 1994, and then to the Oconee County Council for approval on Tuesday, December 6, 1994. The Agreement must also be accepted and approved by the South Carolina Department of Health and Environmental Control.

It is my understanding that the terms of the Agreement and Order would "pass through" and be binding upon any successor, by merger or otherwise, to Beacon Manufacturing Company.

cc: Mr. Norman D. Crain  
Mr. Robert Winchester  
Mr. Howard Adams

**STATE OF SOUTH CAROLINA****COUNTY OF OCONEE****BEFORE THE OCONEE COUNTY SEWER COMMISSION**

**IN RE: BEACON MANUFACTURING COMPANY, WESTMINSTER, OCONEE COUNTY, SOUTH CAROLINA, OCONEE COUNTY SEWER PERMIT NO. OC-000008.**

**AGREEMENT and CONSENT ORDER**

**WHEREAS**, Oconee County, by and through the Oconee County Sewer Commission (Commission) is the agency designated by the South Carolina Department of Health and Environmental Control as having responsibility for the monitoring and inspection of various industrial users of the Oconee County Sewer Collection, Treatment and Disposal System ("the System"); and

**WHEREAS**, the South Carolina Pollution Control Act as codified in Section 48-1-10, et seq. (1991), and more specifically the pretreatment regulations at Section 61-9.403 of the South Carolina Code of Regulations authorize the Commission to permit the discharge of, and enforce flow limits on, wastewater discharged into the System;

**WHEREAS**, Oconee County Ordinances 79-4 and 90-10 establish regulations for the use of the System and provide administrative procedures, enforcement authority and penalties to be administered by the Commission, to include the establishment of regulations for issuing and enforcing Permits for the use of the System and providing limits of the flow of wastewater from users of the System; and

**WHEREAS**, Oconee County Ordinance No. 89-6 authorizes the Commission to charge "impact fees" for the use of the System based upon wastewater volume; and

**WHEREAS**, Article VIII, Section 6 of Ordinance No. 79-4 authorizes the Commission and its Superintendent to vary the strict terms of its Sewer System Ordinances for good cause; and

**WHEREAS**, Beacon Manufacturing Company ("the Company") operates a manufacturing facility in Oconee County and is an industrial user of the System under Permit No. OC-000008, issued by the Commission and, as such, discharges industrial wastewater into the System; and

WHEREAS, the Commission asserts that the Company has exceeded its permitted wastewater flow limit (225,000 gallons per day) on various occasions since the issuance of its Discharge Permit; and

WHEREAS, the Company has asserted that by mutual mistake of the parties, its wastewater discharge limitation, including proportionate loads of compatible pollutants, was established in error and that the Company has, prior to the effective date of Ordinance No. 89-6, discharged, and the Commission accepted, flow volumes and loads of compatible and incompatible pollutants, in excess of 450,000 gallons per day; and

WHEREAS, the parties hereto desire to amend the Company's Service Permit issued by the Commission so as to reflect the historic wastewater discharged by Beacon and to resolve the dispute between the parties as to what such flow should be for the future and at what impact fee; and

WHEREAS, the Company intends to utilize its Service Permit for the foreseeable future; and

WHEREAS, this Order is made by agreement and with the consent of the Commission and the Company, and the same shall not constitute a finding or adjudication or violation of any county or state law, rule or regulation, by the Company; nor does the Company, by its consent to this Order, admit any of the Commission's allegations, any violation of law, or any liability to any third party or parties.

NOW, THEREFORE, the Commission hereby orders and the Company hereby agrees to the following:

1. The Commission shall amend the Company's Service Permit such that the permitted flow will be limited to 450,000 gallons per day; and
2. The Commission shall base any and all impact fees due from the Company for past discharges upon the "grandfathered" volume of 400,000 gallons per day, instead of the 225,000 gallon per day limit applicable prior to such amendment. The Company thus agrees to pay the Commission the sum of Seventy-five Thousand Dollars (\$75,000.00) within ten (10) days of the execution of this Consent Order by all parties, as full and final settlement for any impact fees accruing as a result of past discharges; and
3. In consideration for the permit amendments and fees as set forth in Items 1 through 2 above, the Company shall construct and operate a flow equalization basin of adequate size to comply with the amended Service Permit.

The "compliance schedule" for such flow equalization basin (the "Basin") shall be as follows:

- a. The Company shall complete planning and design of the basin within ninety (90) days of approval of this Order by the South Carolina Department of Health and Environmental Control ("S.C. DHEC"); and the Oconee County Sewer Commission; and
  - b. The Company shall apply to S.C. DHEC for a permit for construction of the basin upon completion of the planning and design of the basin (review and permitting by S.C. DHEC is expected to take 90 days); and
  - c. The Company shall initiate bidding for construction of the basin within thirty (30) days of issuance by S.C. DHEC of a permit for construction of the basin; and
  - d. The Company shall complete construction of the basin within one hundred eighty (180) days after receiving a permit to construct the same by S.C. DHEC; and
  - e. The Company shall apply to S.C. DHEC for a permit to operate the basin within ten (10) days of completion of construction of the basin; and
  - f. The Company shall commence operation of the basin within thirty (30) days of issuance by S.C. DHEC of a permit for operation of the basin; and
  - g. The total time from the signing date of this Consent Order to the expected completion of the basin is projected to be four hundred twenty (420) days. The Company's ability to complete the project within the time period prescribed above is dependent and contingent upon timely processing and approval of permits and regulated procedures by DHEC and the Commission; and
4. The Company's obligation to construct and operate the basin is contingent upon approval by S.C. DHEC of this Order and issuance of permits to Beacon for construction and operation of the basin by S.C. DHEC; and
  5. In consideration of the Company's adherence to the compliance schedule set forth in Item 3 above, as well as the Company's performance of all other terms and provisions hereof, it is agreed that from the date of execution of this Agreement and Order by all parties,

including S.C. DHEC, until the earlier of (a) four hundred twenty (420) days from the date of such execution, or (b) the completion of construction of the flow equalization basin, no surcharges shall be applied to the Company for discharges of 600,000 gallons per day or less. This provision shall not be construed as a waiver of any surcharges or other penalties which have accrued as a result of discharge violations which may have occurred prior to the date of execution of this Agreement and Order; and

6. The Company's obligation to meet the schedule of compliance provided herein may be extended by either party in the event of: act of God; war; riot; fire; explosion; accident; flood, sabotage; compliance with governmental requirements, laws, regulations, orders or actions; unavoidable breakage or failure of machinery or apparatus; labor trouble, strike, lockout or injunction; which event prevents the delivery, transportation, or construction of the facility required under said schedule of compliance; provided, however, that any extension authorized hereunder shall not exceed a reasonable period of time; and
7. If, for whatever reason, the Company no longer utilizes its Service Permit and such Permit is terminated prior to completion of the schedule of compliance provided under Paragraph 4 above, then, in such event, the Company shall be under no further obligation to complete said schedule of compliance; provided, however, that all other terms of this Consent Order, as well as all terms, conditions and provisions of all applicable Ordinances of Oconee County and statutes and regulations of the State of South Carolina or other governmental entities having jurisdiction over the parties shall otherwise remain in full force and effect; and
8. This Consent Order constitutes the entire agreement between the parties concerning the matters raised herein, and any change, deletion or addition hereto shall be in writing and executed by the parties hereto; and
9. Each of the individual parties, by execution of this agreement, hereby certifies each to the other that they, and each of them, have the authority in their respective capacities to bind such party to this Consent Order.
10. By agreement of the parties, except as otherwise provided, this Order shall be considered final and effective upon approval by S.C. DHEC and shall not be appealable by either party.

- 11. It is mutually understood and agreed that the agreements and provisions as set forth herein are separate from and in addition to, and not in lieu of, any civil, criminal or administrative enforcement actions which may be initiated against the Company by any local, state or federal agency or private entity or individual not a party hereto. Further, the Company agrees to indemnify, hold harmless, and defend the Commission, Oconee County, and the City of Westminster, from any claims, actions, causes of action, or other proceedings initiated by any person, entity or governmental agency by reason of the events and violations cited and set forth herein. Further, the Company shall be required to comply with all other applicable statutes, ordinances and regulations of Oconee County, and/or other state and federal agencies or entities.
- 12. The Company agrees to and hereby waives any and all notice and hearing provisions set forth by statute or ordinance as to the matters raised herein.
- 13. It is further mutually understood, agreed and ordered that this Order shall be enforceable by either party upon application to any Oconee County, South Carolina, Court of Commons Pleas, which shall have exclusive jurisdiction over any dispute arising out of this Order, and that such Order shall be included and made a part of any order of decree issued by such Court.
- 14. This Agreement and Order shall be binding upon the parties hereto, their respective successors and assigns.
- 15. This Agreement shall be governed by the laws of the State of South Carolina.

IT IS SO ORDERED, CONSENT, AND AGREED to this the \_\_\_\_\_ day of \_\_\_\_\_, 1994.

Signed:

**OCONEE COUNTY**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**OCONEE COUNTY SEWER COMMISSION**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

[Signatures continued on next page]

**BEACON MANUFACTURING COMPANY**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

APPROVED THIS \_\_\_\_\_ DAY OF  
\_\_\_\_\_, 1994.

**BY THE SOUTH CAROLINA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL CONTROL (S.C. DHEC)**

By: \_\_\_\_\_

Title: \_\_\_\_\_