

Part 503 – Safety

Subpart A – Engineering Activities Affecting Utilities

AL503.1 Scope

A. Representatives of public and private utility companies should be notified of any proposed investigations and construction activities near their facilities. It is the Natural Resources Conservation Services' policy that the responsible NRCS employee sees that all of the steps in this subpart are carried out.

B. The safety of public and private utilities is the responsibility of the district conservationist. However, on PL83-566, RC&D, EWP, and other formal construction projects, the project or resource engineer will be the designated representative. It is state policy that subsurface exploration, design, and earthmoving operations will not be undertaken until the responsible NRCS employee, or his designated representative, has taken precautions to minimize damage to utilities and has specifically discussed these with the owner or sponsoring organizations.

AL503.2 General Considerations

D. During planning, work involving subsurface investigations or construction requires that all affected utilities be accurately located and recorded on the map used in the planning process. The map will be filed in the appropriate field office or design office. Affected utilities will also be shown on the soil and foundation investigation drawings and on the detailed construction drawings for use by soils investigation personnel and contractors respectively. Locations of utilities will be determined by a thorough field review; discussions with the landowner, operator, or sponsoring organization; or contact with the utility companies.

AL503.4 Buried Utilities

A. The responsible employee shall document in the case file; that the landowners or operators, sponsoring organizations, and contractors have been informed that they are liable for any damage resulting from disruption of service caused by construction activities; that NRCS makes no representation on the existence or nonexistence of any utilities; and that the actions identified in NEM 504.0(A) have been completed.

- (1) Notify the Utility Notification Center - Alabama One Call is an underground utility protection service designed to provide contact with hundreds of different organizations with a single phone call. By calling this number (1-800-292-8525), any one of the member companies can be notified of pending excavation. This free-of-charge service is available Monday through Friday from 7 a.m. to 5 p.m. If calling after hours, the telephone message for Alabama One Call will refer you to the numbers listed in your local directories for locate utility companies. Some statewide members who do not list emergency numbers are listed on the recording for your information. However, it is requested that calls be placed 48 hours (2 working days) in advance of planned work to facilitate scheduling of line locating crews. All calls are recorded on tape and maintained as a protective record.

Part 503 – Safety

Subpart D – Dam Safety

AL503.55 – NRCS-State Relationships

The state conservation engineer (SCE) is responsible for coordinating NRCS activities concerning dam safety. The SCE shall work with the State of Alabama and others in promoting the development of a strong state dam-safety program. [See Exhibit 1. Memorandum of Understanding between the Alabama Department of Economic and Community Affairs, Office of Water Resources (ADECA OWR) and USDA NRCS.]

AL503.56 - Responsibility for dams.

NRCS in Alabama provides technical and/or financial assistance on dams, dikes, and other water control structures under various programs. Sudden failure of many of these may seriously endanger life and property. Adequate design, construction, and proper operation and maintenance can significantly reduce the likelihood of such failures. NRCS technical assistance in the design and construction of dams shall ensure that all NRCS standards are met and that the dam does not pose an unsafe condition to downstream landowners.

During the calendar year of the scheduled dam safety 5-year inspection [See NEM AL503.59, Exhibit 2), district conservationists responsible for the county in which the dam(s) is located, will review and document the review of the Operation and Maintenance (O&M) Agreement with the primary sponsor of the project. O&M Agreements can be revised and/or modernized as deemed appropriate by the sponsor and NRCS. When O&M Agreements are revised, they should be in accordance with guidance in the National O&M Manual and should contain an expiration date.

The following procedures shall be followed for the design, construction, repair, or alteration of dams constructed under the conservation operations program.

- (1) The district conservationist (DC) in consultation with the assistant state conservationist for field operations (ASTC-FO) and the resource engineer (RE) is responsible for determining if proper design and construction inspection assistance can be provided by someone with appropriate engineering job approval authority. If NRCS cannot provide the necessary technical assistance in a timely manner, the DC shall inform the landowner of his/her need to arrange for the services of a private engineer before proceeding with the project. Before NRCS provides technical assistance for the design of a dam, the DC is to inform the landowner of his/her responsibilities in constructing and operating the dam ([AL-ENG-27](#) or [AL-ENG-27a](#) signed and on file). (See NEM AL501.4, Exhibit 1). When the design and plans are complete, the landowner is responsible for obtaining any required permits to construct the dam (NPDES, 404 Permit, etc.). The DC should provide assistance to the landowner as needed in securing any permit, but shall not act as an agent for the landowner under any circumstances.
- (2) Once NRCS undertakes the design of a dam or impoundment, the DC shall have a clear understanding with the landowner that any changes to the plans and specifications must be approved by NRCS. If for any reason the design is changed, or construction proceeds without NRCS's approval and appropriate corrections are not made, the DC shall immediately notify the landowner in writing of the deviations

and state that NRCS is terminating all assistance on the project. A copy of this letter shall be sent to the ASTC-FO, RE, and SCE.

- (3) When final designs are complete, the NRCS will provide sufficient copies of the plans ([AL-ENG-2](#) or [AL-ENG-3](#)) and specifications to the cooperator for construction. The plans and specifications shall adequately describe the works of improvement and shall include the job class and hazard classification of the dam. As appropriate, the plans shall also include a description of downstream land use and potential damage that may result from a sudden dam failure, the results of any geologic investigation, cross-sections, profiles, logs of borings, locations of borrow areas, drawings of principal and emergency spillways, and other additional details to clearly indicate the extent of the work to be performed. A vegetation plan and an operation and maintenance plan shall be included as part of the final design.
- (4) It is essential that NRCS provide adequate inspection during construction in order to certify that the dam was constructed in accordance with the plans and specifications.
- (5) During the installation of the dam, construction checks shall be taken and recorded in the engineering field notes. Construction checks shall be of such frequency and amount that it can be determined if installation is in conformance with NRCS plans and specifications. As a minimum, the following items shall be checked during construction and properly recorded:
 - (i) Foundation preparation and cutoff trench.
 - (ii) Principal spillway installation including type of pipe and coating, pipe size and gauge, pipe invert elevations, etc.
 - (iii) Drainage diaphragm or antiseep collar
 - (iv) Foundation drain installation, if required.
 - (v) Sufficient checks of earthfill placement and compaction to ensure adherence to plans and specifications.
 - (vi) Emergency spillway width, side slopes, control section, inlet and outlet grades.
 - (vii) Assurance that adequate vegetation will be established.
- (6) Construction technical assistance provided to the landowner in the form of verbal instructions shall be documented.
- (7) Any design changes made during construction must be approved by an NRCS employee with appropriate engineering job approval authority before changes are made.
- (8) When the dam is completed, the responsible NRCS employee with the appropriate engineering job approval authority will properly document that the dam was completed according to plans and specifications and mark the plans “as-built”.
- (9) Construction check notes, design data, and a copy of the “as-built” plans and specifications shall be retained in the field office as a permanent record as long as the dam remains in place.

The following procedures shall be followed for the design, construction, repair, or alteration of the following type of measures (project or non-project type) that have agreements or easements providing for sponsor/NRCS inspection:

- All Class Low (L), Significant (S), and High (H) dams [National Engineering Manual (NEM) 520.20];
- Class I dikes (See eFOTG, Alabama NRCS, [Conservation Practice Standard, Dike, Code 356](#)); and
- Other measures whose sudden failure may endanger life or cause serious damage to property. These measures will include water control structures such as floodwater diversions, diversion dams, debris basins, irrigation canals, etc.

- (1) Before recommending the commitment of federal construction assistance, the ASTC-FO is to ensure that the sponsors or owners are willing and able to perform operation and maintenance. The ASTC-FO will work with the SCE to see that O&M plans are prepared for all project and non-project activities as appropriate.
- (2) An O&M plan will be developed for each structure and signed by all parties having O&M responsibility. The O&M plan will be prepared concurrently with the design of the specified structure. It will set forth the requirements for proper and safe O&M of the dam. The O&M plan will be explained to the sponsor or owner prior to furnishing construction layout assistance.
- (3) The SCE is responsible for establishing the engineering requirement for O&M to be included in O&M plans and agreements. The SCE also determines need and specifications for non-vegetative O&M treatment.
- (4) Design operating procedures are according to NEM AL511.03(a).
- (5) Inspections will be performed according to NEM AL503.59.

AL503.59 - Interim Assistance.

Inspections.

- (1) Regularly scheduled inspections of project type dams and other included measures [See NEM AL503.56] are necessary to insure that proper O&M is being performed. These inspections should include:
 - (a) reviewing hazard classifications,
 - (b) assessing the adequacy of current O&M activities,
 - (c) identifying unsafe conditions,
 - (d) specifying means of relieving unsafe conditions,
 - (e) notifying those who are responsible, and
 - (f) encourage prompt corrective action if necessary.
- (2) NRCS assistance will not compete with state inspection programs. If satisfactory inspections are made by a state agency in compliance with state law, NRCS will not conduct separate inspections. However, if requested, NRCS may participate in state-administered inspections.
- (3) In the absence of acceptable state inspections and where O&M agreements or easements allow, NRCS will inspect project and non-project dams. Engineering inspections required by NRCS are to be conducted jointly by NRCS, the sponsors or owners, representatives of the Soil and Water Conservation Districts (SWCD), and representatives of the U.S. Forest Service when the dam is on Forest Service property.
- (4) Engineering inspections will be made on all Class L, S, and H dams and on all Class I dikes. The NRCS resource engineers will be responsible for conducting the engineering inspections within their assigned counties during:
 - the initial filling;
 - annually during the first 3 years;
 - after major storms or other events (earthquakes); and
 - once every 5 years.

The NRCS will not require independent NRCS engineering inspections of structures of the type covered by this policy which have no agreement or easement authorizing such inspections. However, upon request of the sponsor or owner, NRCS may assist in making such inspections.

- (5) Resource engineers are responsible for performing (or approving) the 5-year engineering inspections in their assigned counties. Engineers performing the 5-year inspection of dams should be experienced in planning, designing, constructing, and inspecting of dams for O&M. Engineers meeting these requirements will also be used, when available, on all engineering and O&M inspections.
- (6) Alabama NRCS Dam Safety 5-year Inspection Plan [[See NEM AL503.59, Exhibit 2](#)] sets up the schedule for project activity dams. This will be maintained as a master schedule in each team, resource engineer's office, and field office so that inspections can be accomplished on a timely basis. Five-year engineering inspections for non-project dams will be added to the schedule and will be performed when requested by the owner or as required under new construction.

Inspection Reports.

Engineering inspection reports will be prepared for each dam listed in the 5-year inspection schedule ([See NEM AL503.59, Exhibit 2](#)). The NRCS inspecting engineer will record their findings on one or both of the following forms, as appropriate:

- (1) Form [AL-ENG-23](#), Dam Classification or Reclassification for Alabama [[See NEM AL503.59 Exhibit 3](#)]. This form will be completed initially during planning and prior to design of future non-project and project dams in Classes L, S, and H ([See NEM 520.23 and AL520.23](#)). The form will also be completed by the responsible engineer to document no changes in hazard classification during the 5-year inspection, and after any inspection which reveals that a change in hazard classification is warranted. Each completed [AL-ENG-23](#) will be reviewed and approved by the SCE and others as required by NEM prior to distribution. The SCE will distribute a copy of the original (including reclassification) to the appropriate resource engineer's office, team office, and field offices for filing, and to the Design Section for the project site design folder. The original will be filed in the SCE's office.
- (2) Form [AL-ENG-24](#), Watershed Structure Inspection Report, [[See NEM AL503.59, Exhibit 4](#)]. This form shall be completed by the responsible engineer in the field for annual inspections during the first 3 years after construction of a watershed dam is completed, inspections after a major storm event that produces spillway flow, and for routine 5-year inspections. These engineering inspections will include engineering surveys as determined by the responsible engineer to document changes or potential problems with the safety of Class L and S structures. The engineering inspections for class "H" structures will include as a minimum:
 - a plotted survey of the centerline profile of the embankment and identifying the designed (settled) top-of-dam elevation,
 - at least two plotted cross-sections of the embankment (one of which should be at the principal spillway location),
 - a plotted cross section at the emergency spillway control section,
 - a recorded elevation on the outlet invert of the pipe or lip of the impact basin, and
 - any other safety related surveys as determined by the responsible engineer.

The 5-year inspections will also include documentary digital photographs of potential safety concerns only. When explanation is needed to identify or describe the safety concern, notes shall be added to the digital photograph utilizing software such as Microsoft PowerPoint. Photographs are to be saved as ".jpg" files and given a file name as follows:

Watershed Name, Site Number, Year, Month (YYYY-MM), Picture Number.jpg

For example: **Dry 7 1998-07 A.jpg**

Photographs (.jpg files) will be transmitted to the engineering section secretary for placement in the Dam Safety files.

The final [AL-ENG-24](#) report for engineering inspections will be approved by the SCE and distributed by the Resource Engineer within 30 days to the field office, sponsors or owners, and the responsible engineer. The original 5-year inspection form along with documentary digital photographs and plotted surveys will be filed in the official dam safety file in the SCE's office. Reports on dams found to be unsafe will be distributed as shown above and the actions required by paragraph NEM AL503.59 will be followed.

Inspection Follow-up.

The district conservationist (DC) will work with the sponsor(s) or owner(s) to make corrections on safe and unsafe dams where needs have been identified. When accomplished, the DC will itemize the corrections performed and submit a copy of his written report to the ASTC-FO, SCE, and each sponsor or owner. In addition, the ASTC-FO will advise the SCE of actions being taken to resolve any remaining O&M problems. All follow-up reports will be filed with the initial inspection report. All needed corrections should be complete within 30 days after reviewing with the sponsor(s) or owner(s).

Responsible resource engineers are to draft a letter to the sponsors identifying O&M deficiencies found during a 5-year inspection and the corrective actions required. This draft letter will be provided to the SCE for signature by the STC.

Records.

The ASTC-FO will maintain applicable O&M folders and a copy of the original of the [AL-ENG-24](#) annual O&M inspection and 5-year engineering inspection reports for dams located in counties on their team. These folders will include the plan of operation, annual O&M inspection reports, 5-year inspection reports, and follow-up action that was performed. The SCE will maintain the original of the reports along with documentary photographs and surveys and any other applicable material in the dam safety file.

Inspection reports [[AL-ENG-23](#) and [AL-ENG-24](#) (annual O&M and 5-year)] will be distributed as follows:

- Original: State Conservation Engineer (include documentary photographs and surveys)
- Copies: Sponsor(s) or owner(s)
- District Conservationist
- Responsible Resource Engineer
- ASTC-FO Team Office
- WSI Coordinator at the Coosa Valley RC&D Office (state-wide responsibility)

Unsafe Dams.

If a dam is determined to be unsafe based on visual inspections, the engineer performing the engineering inspection will complete action to verify the condition of the dam. An outline of actions to be taken will be developed in consultation with the SCE. The outline will be developed using the Phase II Investigation in the Corps of Engineers Recommended Guidelines for Safety Inspection of Dams or current NRCS policy and procedures.

NRCS will encourage the sponsor(s), owner(s), or other appropriate entity to correct the condition as quickly as possible. The steps to be taken in these circumstances are as follows:

- (1) The STC will provide the sponsor or owner with a copy of the report (See NEM AL503.59) and written notification of the unsafe condition and the actions needed to correct it. A copy of the report will be given to the appropriate state or county authority. NRCS will encourage compliance with the needed actions.
- (2) If the necessary corrective actions are not taken within 30 days after the date of notification of the sponsor or owner, the STC will notify authorities having jurisdiction over the structure.

Schedules.

The engineering inspection and 5-year engineering inspection of dams should be coordinated with the sponsors O&M inspection and be performed in May or June as required by NEM AL503.59.

Part 503 – Safety

Subpart D – Dam Safety

AL503.55 – Exhibit 1. Memorandum of Understanding between ADECA OWR and USDA NRCS.

MOU-4101-11-1

MEMORANDUM OF UNDERSTANDING

between the

ALABAMA DEPARTMENT OF ECONOMIC AND COMMUNITY AFFAIRS

OFFICE OF WATER RESOURCES

AND THE

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

I. PURPOSE

The purpose of the Memorandum of Understanding (MOU) is to provide a mechanism to foster interaction and coordination between the Alabama Department of Economic and Community Affairs, Office of Water Resources (OWR) and the USDA Natural Resources Conservation Service (NRCS). Furthermore, this MOU will establish a structure and mechanism for cooperation between NRCS and OWR, but does not preclude the independent execution of contracts or other agreements by individual Agencies.

II. BACKGROUND AND MUTUAL BENEFITS AND INTERESTS

Cooperation and communication through this MOU, with a broad spectrum of customers and partners, are vital components of the NRCS mission and are fundamental purposes of OWR. An exchange of program priorities and project information between OWR and NRCS will foster cooperative planning efforts of mutual benefit.

This MOU is entered into because of the mutual understanding:

- a) That dams in the United States should be constructed, rehabilitated, operated and maintained in accordance with sound engineering principles to avoid potential loss of life and destruction of property in the event of dam failure;
- b) That an Alabama Safe Dams Program would help ensure that high hazard dams in the state are properly designed, operated, and maintained to minimize downstream dangers associated with a potential dam failure;
- c) That a modern inventory of dams for Alabama is essential for a Dam Safety Program;

- d) That most dams designed and constructed under the technical supervision of the NRCS are operated and maintained by landowners and watershed sponsors;
- e) The NRCS and Association of State Dam Safety Officials (ASDSO) wish to encourage a harmonious relationship and improve communications between the State Offices of the NRCS and OWR;

III. RESPONSIBILITIES AND OBJECTIVES

- 1. To advance the knowledge and practical application of a Safe Dams Program in Alabama;
- 2. To improve the effectiveness of NRCS and OWR, they shall share with the other Party the results of any dam safety research or technological advances and any update of standards of design, construction, operation, rehabilitation, and maintenance;
- 3. To improve methods of assembling and disseminating data and information to legislators with an interest in Dam Safety; governmental agencies; and the public;
- 4. To effectively coordinate activities with other Federal and State agencies working in related fields;
- 5. NRCS State Conservationists and the Division Director of OWR will meet as needed to discuss current programs and priorities and agree on possible joint activities;
- 6. Jointly encourage and assist communities to develop Emergency Action Plans on all NRCS assisted high hazard dams.
- 7. The NRCS shall continue to provide information to the National Inventory of Dams (NID) for dams with NRCS assistance.

IV. TERMS AND CONDITIONS

- 1. This MOU does not affect or modify existing regulations or agency responsibilities and authorities. It specifically does not commit any agency to activities beyond the scope of its mission and authorities under its organic statutes.
- 2. OWR and NRCS and their respective officers will handle their own activities and utilize their own resources, including expenditures of their own funds, in pursuing the purposes in this MOU. Each party will carry out its separate activities in a coordinated, professional, and mutually beneficial manner.
- 3. Nothing in this MOU shall obligate OWR or NRCS to expend or transfer any funds. Specific work projects or activities that involve the transfer of funds, services, or

property among Parties and offices of the Parties will require execution of separate agreements, and be contingent upon the availability of appropriated funds. Such activities must be independently authorized by appropriate statutory authority. This MOU does not provide such authority. Negotiation, execution, and administration of each such agreement must comply with all applicable statutes and regulations.

V. PROVISIONS

1. This MOU supersedes any previous MOU between the Parties.
2. This MOU takes effect upon the signature of the Parties and remains in effect for a period not to exceed 5 years from date of execution.
3. This MOU may be cancelled, renegotiated, amended, or modified by a written amendment through an exchange of correspondence between authorized officials of the signatory Parties.
4. Either Party may terminate this MOU by written notice to the other Party 30 days prior to the effective date of the termination.
5. This MOU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by any Party against the United States, its agencies, its officers, or any person.
6. As a condition of this MOU, all signatory Parties assure and certify that this MOU, and any agreements written pursuant to this MOU, will comply with the nondiscrimination provision contained in Title VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscriminatory statutes. They also will be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, Subpart A and B), which provides that no person in the United States shall, on the grounds of race, national origin, age, sex, religion, marital status, or disability be excluded from participating in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U. S. Department of Agriculture, or any agency thereof.
7. All activities conducted under this MOU shall be in compliance with the Drug-Free Workplace Act of 1988 (Public Law 100-690, Title V, Subtitle D).

VI. TECHNICAL CONTACTS

Leslie Durham, P.E.
ADECA, Office of Water Resources
Address: 401 Adams Avenue, Suite 434, Montgomery, Alabama 36104
Telephone: 334- 242-5506
Email: Leslie.Durham@adeca.alabama.gov

Perry L. Oakes, PE, State Conservation Engineer
USDA Natural Resources Conservation Services
Address: 3381 Skyway Drive, Auburn, AL 36830
Telephone: 334-887-4536
Email: perry.oakes@al.usda.gov

ACCEPTED BY:



Dr. William Puckett
State Conservationist
Natural Resources Conservation Service
United States Department of Agriculture
Auburn, Alabama

4-15-11
DATE



J. Brian Atkins, P.E.
Division Director, ADECA Office of Water Resources
Montgomery, Alabama

4/19/11
DATE

Part 503 – Safety

Subpart D – Dam Safety

AL503.59 - Exhibit 2 – Alabama NRCS Dam Safety 5-Year Inspection Schedule.

**ALABAMA 5-YEAR INSPECTION SCHEDULE
5-YEAR INSPECTION SCHEDULE**

North Resource Engineer

WATERSHED	STRUCTURE NUMBER	INSPECTION SCHEDULE/ CURRENT HAZARD CLASSIFICATION					COUNTY
		2012	2013	2014	2015	2016	
Big Nance Creek	4			L			Lawrence
Bristow Creek	1				H		Etowah
Cypress Creek	17			S			Lauderdale
Hurricane Creek	11			H			Madison
Little New River	1	S					Marion
Little New River	2	S					Marion
Little New River	3	S					Marion
Little Paint Creek	9			H			Marshall
Terrapin Creek	6	S					Cherokee
Terrapin Creek	8	H					Cherokee
Terrapin Creek	17	L					Cherokee
Town Creek	3		L				Lawrence
Town Creek	11			L			Franklin
Town Creek	12		L				Lawrence
Town Creek	16		L				Lawrence
Town Creek	22		L				Lawrence

Central Resource Engineer

WATERSHED	STRUCTURE NUMBER	INSPECTION SCHEDULE/ CURRENT HAZARD CLASSIFICATION					COUNTY
		2012	2013	2014	2015	2016	
Blue Eye Creek	1		H				Talladega
Blue Eye Creek	2		H				Talladega
Cahulga Creek	1			H			Cleburne
Cheaha Creek	2					H	Talladega
Cheaha Creek	3					S	Talladega
Cheaha Creek	4					S	Talladega
Cheaha Creek	5			H			Talladega
Cheaha Creek	6			H			Talladega
Choccolocco Creek	2					S	Calhoun
Choccolocco Creek	3		S				Calhoun
Choccolocco Creek	6				H		Calhoun
Choccolocco Creek	7			H			Cleburne
Choccolocco Creek	9			H			Calhoun
Choccolocco Creek	11			H			Calhoun
Choccolocco Creek	14		L				Talladega
Choccolocco Creek	15		L				Talladega

Title 210 – National Engineering Manual

WATERSHED	STRUCTURE NUMBER	INSPECTION SCHEDULE/ CURRENT HAZARD CLASSIFICATION					COUNTY
		2012	2013	2014	2015	2016	
Choccolocco Creek	17		H				Talladega
Choccolocco Creek	24			H			Cleburne
Crooked Creek	2			S			Clay
Crooked Creek	3			S			Clay
Crooked Creek	5			H			Clay
Crooked Creek	16	H					Clay
Crooked Creek	17A	S					Clay
Dynne Creek	1					S	Cleburne
Dynne Creek	3					S	Cleburne
Fox Creek	2	L					Clay
High Pine Creek	1					L	Randolph
High Pine Creek	2					S	Randolph
High Pine Creek	3					L	Randolph
High Pine Creek	4				L		Randolph
High Pine Creek	5				L		Randolph
High Pine Creek	6				S		Randolph
High Pine Creek	10				L		Randolph
Ketchepedrekee Creek	1	S					Clay
Ketchepedrekee Creek	9	S					Clay
Ketchepedrekee Creek	10	S					Clay
Ketchepedrekee Creek	11	S					Clay
Ketchepedrekee Creek	15				S		Clay
Little Hillabee Creek	1		L				Clay
Little Hillabee Creek	2		L				Clay
Little Hillabee Creek	3		L				Clay
Little Hillabee Creek	4		L				Clay
Little Hillabee Creek	6		L				Clay
Lost Creek	1				L		Cleburne
Lost Creek	2				L		Cleburne
Lost Creek	3				H		Cleburne
Lost Creek	4				L		Cleburne
Tallaseehatchie Creek	1				H		Talladega
Tallaseehatchie Creek	2				H		Talladega
Tallaseehatchie Creek	3				H		Talladega
Tallaseehatchie Creek	4				H		Talladega
Tallaseehatchie Creek	6				S		Talladega
Tallaseehatchie Creek	7				S		Talladega
Tallaseehatchie Creek	9				S		Talladega
Terrapin Creek	9					S	Calhoun
Terrapin Creek	14					H	Cleburne
Terrapin Creek	15					S	Cleburne
Terrapin Creek	21					L	Cleburne
Terrapin Creek	22					L	Cleburne
Terrapin Creek	31					H	Cleburne
Terrapin Creek	33					S	Cleburne

Title 210 – National Engineering Manual

East Resource Engineer

WATERSHED	STRUCTURE NUMBER	INSPECTION SCHEDULE/ CURRENT HAZARD CLASSIFICATION					COUNTY
		2012	2013	2014	2016	2012	
High Pine Creek	11				L		Chambers
High Pine Creek	12				L		Chambers
Mush Creek	5			S			Lowndes
Old Town Creek	22				L		Bullock
Old Town Creek	24				L		Bullock
Old Town Creek	25				L		Bullock
Old Town Creek	26				L		Bullock
Old Town Creek	28				L		Bullock
Old Town Creek	29				L		Bullock

West Resource Engineer

WATERSHED	STRUCTURE NUMBER	INSPECTION SCHEDULE/ CURRENT HAZARD CLASSIFICATION					COUNTY
		2012	2013	2014	2015	2016	
Big Prairie - French Creek	11					L	Perry
Big Prairie - French Creek	12					L	Perry
Dry Creek	1		L				Marengo
Dry Creek	3		L				Marengo
Dry Creek	5		L				Marengo
Dry Creek	72					L	Marengo
Dry Creek	73		L				Marengo
Dry Creek	83		L				Marengo
Factory Creek	6	S					Sumter
Factory Creek	7	S					Sumter
Lake L.U. Dam	L.U.		H				Sumter
Mush Creek	2			L			Dallas
Powell Creek	1					L	Marengo
Powell Creek	3					L	Marengo
Powell Creek	4A					L	Marengo
Powell Creek	5	L					Marengo
Powell Creek	7	L					Marengo
Powell Creek	8	L					Marengo
Powell Creek	9	L					Marengo
Powell Creek	23					L	Marengo
Powell Creek	24					L	Marengo

Part 503 – Safety

Subpart D – Dam Safety

AL503.59 – Exhibit 3 – Dam Classification or Reclassification for Alabama.

U.S. DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

AL-ENG-23
February 2008

DAM CLASSIFICATION OR RECLASSIFICATION FOR ALABAMA

WATERSHED _____ SITE NO. _____ COUNTY _____ JOB CLASS _____

SITE STATUS AND HAZARD CLASS: Planning _____ Design _____

Date Dam Completed: _____ Current Hazard Class _____

Classified by _____ Title _____ Date _____

(Engineer having design approval authority for job class) _____

Drainage Area _____ sq.mi. Seismic Zone _____ Approx. Dam Height _____ ft.

General Setting of Location _____

Purpose of Storage _____ Total Storage _____
ac.ft.

Flood Storage _____ ac.ft. Other Storage _____
ac.ft.

Single Site _____ Upper in series _____ Lower in series _____ Intermediate in series _____

Cover Type in Drainage Area _____

Basic Geological Data _____

Configuration of Valley (Attach a flood plain map) _____

Degree of Expected Maintenance is _____

Specific Safety Laws and/or Needs _____

DESCRIBE EXISTING CONDITIONS DOWNSTREAM AND POTENTIAL FOR FUTURE DEVELOPMENT

(Potential loss to human life and/or property damage)

Agricultural Land _____

Industrial and Commercial Land _____

Roads and Highways _____

Railroads _____

Farm Buildings _____

Commercial Buildings _____

Homes _____

Public Utilities _____

Lakes, Ponds, Lagoons _____

Potential for Development _____

Part 503 – Safety

Subpart D – Dam Safety

AL503.59 – Exhibit 4 – Dam Classification or Reclassification for Alabama.

U.S. DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

AL-ENG-24
September 2008

WATERSHED STRUCTURE INSPECTION REPORT

Date of Inspection: _____ 5 Year (____) ANNUAL (____)

County: _____ Watershed: _____ Site _____

Field Office: _____ Sponsor Responsible for O&M _____

Location: Latitude _____ N Longitude _____ W

Hazard Classification: _____ Is Hazard Classification still accurate? () Y () N
(Most recent AL-ENG-23) If no, complete new AL-ENG-23.

“YES” responses need explanation added to “Remarks” section. (i.e.: What? Where? Extent?)

“NO” responses indicate problems not observed during inspection.

Non-applicable items should be noted by NA.

ITEM	YES	NO	REMARKS
1. General Conditions			
a. Alterations to dam?			
b. Development in downstream floodplain?			
c. Development around reservoir?			
2. Embankment			
a. Is vegetative cover inadequate?			
b. Are trees growing on either slope?			
c. Is brush/weed control needed?			
d. Are trees growing at waterline?			
e. Is drift debris present?			
f. Are cracks, settlement, or bulges present?			
g. Is seepage visible on downstream slope?			
h. Are animal burrows present?			
i. Are trails present?			
3. Front Slope Protection			
a. Any wave damage observed?			
b. Is riprap inadequate?			
c. Are rodent holes present?			
4. Inlet Structure and Gate Valves			
a. Does concrete exhibit deterioration?			
b. Is concrete reinforcement exposed?			
c. Was leakage observed inside inlet?			
d. Any corrosion of metal appurtenances?			
e. Is debris guard obstructed?			
f. Is debris guard corroded?			
g. Is gate stem broken or bent?			
h. Are components missing?			
i. Was gate determined not operational?			Date gate last operated:
j. Has inlet been modified to alter water surface?			

Title 210 – National Engineering Manual

k. Is there structural movement?			
l. Is access door missing?			
m. Is wildlife gate/cool water release non-functional?			
5. Principal Spillway Conduit			
a. Is concrete conduit deteriorated?			
b. Is metal conduit corroded?			
c. Was leakage observed at pipe joints?			
d. Was pipe inspected internally?			
6. Auxiliary Spillway			
a. Is vegetative cover inadequate?			
b. Any animal trails observed?			
c. Any vehicular trails observed?			
d. Is flow area obstructed?			
e. Is control section disturbed?			
7. Principal Spillway Release Channel			
a. Does scour hole appear unstable?			
b. Any boils observed?			
c. Is riprap inadequate?			
d. Any seepage observed?			
e. Is conduit outlet submerged?			
f. Is conduit outlet not properly supported?			
g. Is outlet channel obstructed?			
h. Is outlet channel degrading?			
i. Is foundation drain submerged?			
j. Is foundation drain rodent barrier missing?			
k. Is foundation drain not functional?			
8. Perimeter Fence			
a. Is fence inadequate?			
b. Are gates open?			
9. Reservoir Area			
a. Is pool at different level than designed?			
b. Does pool area have downed trees/debris?			
c. Is sediment deposition excessive?			
ACTIONS TAKEN: Identify all work performed in the preceding 12 months by sponsors and/or NRCS, including approximate cost and date completed.			
ACTIONS NEEDED: Identify items by priority: low (next 12 months); high (as soon as possible). Indicate date assistance requested; technical or financial.			
O&M Non-Compliance Issues (Check each issue that has not been addressed since last inspection):			
() 1. Human Safety (such as missing access cover(s).	() 7. Auxiliary spillway blockage (usually fence or trees in spillway).		
() 2. Trash rack or parts of trash rack missing.	() 8. Severe woody vegetative growth on principal spillway outlet or along permanent pool of dam.		
() 3. Trash rack debris blockage.	() 9. Drain pipe problems.		
() 4. Principal spillway clogged.	() 10. Severe embankment erosion.		
() 5. Severe erosion of principal spillway outlet.	() 11. Flood pool storage alteration.		
() 6. Auxiliary spillway without complete dense permanent vegetative cover in the control or exit			

Title 210 – National Engineering Manual

sections (lack of vegetation or irregularity such as a road in the control or exit section).	() 12. Severe tailwater issues.
Sponsor Representative	NRCS Representative
State Conservations Engineer (Required for 5-Yr. Inspection)	

DISTRIBUTION: Original - State Conservation Engineer (with documentary photos and surveys)
 Copies - Sponsor or Owner, Field Office, Responsible Resource Engineer, ASTC-FO Team Office,
 and Watershed Structure Improvement (WSI) Coordinator (Coosa Valley RC&D)