SC DEPARTMENT of ENVIRONMENTAL SERVICES

South Carolina Department of Environmental Services - Bureau of Water
Dam Safety and Stormwater Permitting Division - Dam Safety Program

NOTICE OF INTENT TO FILE
AN APPLICATION FOR A SCDES DAM SAFETY PERMIT AND REQUEST FOR A PRE-APPLICATION MEETING

Please Note: This form not applicable to levee, flood wall, sea wall, or other water diversion projects. Please contact the Dam Safety Program regarding legal and regulatory requirements for water or other fluid diversion projects other than dams.

Part 1: Dam Owner, Operator and Engineer Information

Please Note: If more than 3 dam owners, provide additional copies of this page as an attachment.

1.A. DAM OWNER INFORMATION	
Dam Owner	☐ This owner is also an operator
Owner Name:	
Owner is a: Choose an item.	
Owner's Legal Representative: ☐ Self	
Mailing Street Address or P.O. Box:	
Mailing Address City, State:	Choose an item.
Mailing Address Zip Code:	
Phone Number:	Phone Type: Choose an item.
Additional Phone Number:	Phone Type: Choose an item.
E-mail Address:	
Ownership a result of: Choose an item.	
If dam ownership is resulting from title to property, enter the tax parcel ID #s (TMS #'s) for this owner's parcel(s):	County: Choose an item County: Choose an item
Additional Dam Owner	☐ This owner is also an operator
Owner Name:	
Owner is a: Choose an item.	
Owner's Legal Representative : ☐ Self	
Mailing Street Address or P.O. Box:	
Mailing Address City, State:	Choose an item.
Mailing Address Zip Code:	
Phone Number:	Phone Type: Choose an item.
Additional Phone Number:	Phone Type: Choose an item.
E-mail Address:	
Ownership a result of: Choose an item.	
If dam ownership is resulting from title to property, enter the tax parcel ID #s (TMS #'s) for this owner's parcel(s):	County: Choose an item County: Choose an item

Additional Dam Owner	☐ This owner is also an operator
Owner Name:	
Owner is a: Choose an item.	
Owner's Legal Representative : ☐ Self	
Mailing Street Address or P.O. Box:	
Mailing Address City, State:	Choose an item.
Mailing Address Zip Code:	
Phone Number:	Phone Type: Choose an item.
Additional Phone Number:	Phone Type: Choose an item.
E-mail Address:	
Ownership a result of: Choose an item.	
If dam ownership is resulting from title to property, enter the tax parcel ID #s (TMS #'s) for this owner's parcel(s):	County: Choose an item County: Choose an item

1.B DAM OPERATOR INFORMATION	☐ Dam does not have a dedicated operator
Operator Entity Name:	
Operator is a: Choose an item.	
Operator's Legal Representative: ☐ Self	
Mailing Street Address or P.O. Box:	
Mailing Address City, State:	District of Columbia (DC)
Mailing Address Zip Code:	
Phone Number:	Phone Type: Choose an item.
Additional Phone Number:	Phone Type: Choose an item.
E-mail Address:	
Description of Operator's responsibilities:	

1.C ENGINEER INFORMATION	
Company Name: ☐ N/A	
Engineer's Name:	
South Carolina PE Registration No.:	
South Carolina PE Registration Expiration Date:	Month Day Year
Mailing Street Address or P.O. Box:	
Mailing Address City, State:	Choose an item.
Mailing Address Zip Code:	
Phone Number:	Phone Type: Choose an item.
Additional Phone Number:	Phone Type: Choose an item.
E-mail Address:	

Part 2: Proposed Project Information

2.A. PROJECT TYPE / TYPE OF PERMIT REQUESTED* *(Check all that apply)*		
☐ Construct a New Dam	☐ Repair an Existing Dam	☐ Alter an Existing Dam
☐ Remove an Existing Dam	Repair Sub-Type:	Alteration Sub-Type:
☐ Work in Reservoir Only (e.g., dredging)[1]	☐ Embankment repair	☐ Raise/lower height of dam
☐ Emergency Repair[1]	☐ Spillway repair	☐ Spillway modification
☐ Perform Intrusive Geotechnical Investigation[1]	☐ Barrel/conduit repair	☐ Add spillway(s)
☐ Utility work in dam (e.g.,water/sewer, gas, etc.)[1]	☐ Tree removal	☐ Seismic stability improvements
☐ Roadway work on dam[1]	☐ Drainage system repair	☐ Add internal drainage system
[Reserved]	☐ Repair breach	☐ Steepen/flatten slopes
[Reserved]	☐ Repair animal burrowing	☐ Slope armoring
☐ Other Project (specify below): _____	☐ Other (specify below): _____	☐ Other (specify below): _____

[1]*May not require a permit – consult with Dam Safety Program staff before applying.*

2.B. PROJECT IDENTIFICATION AND LOCATION	
Preferred Dam Name[2]: _____	Joint Federal-State Dam ID[3]: SCD _____
Additional Dam Names (if applicable): _____	
Impoundment/Waterbody Name(s): _____	
Impounded Stream Name(s): _____	☐ Is an unnamed tributary to the named stream ☐ N/A - not on a natural stream/water course
Located in this major river's watershed: Choose an item.	12-digit Hydrologic Unit Code (HUC): _____
Estimated Stream Base Flow (cubic feet per second): _____	☐ N/A – not on a natural stream/water course
County(ies) dam is located in: Primary: Choose an iter Secondary: Choose an iter	Off-stream Reservoir?: ☐ Yes | ☐ No | ☐ N/A Watershed Area for Dam (☐ acres | ☐ mi^2): _____
Latitude @ dam center: _____	Longitude @ dam center: _____
Proposed Date for Commencement of Work: Month Day Year	
Proposed Date for Completion of Work: Month Day Year	
Description of Watershed Characteristics[4] : _____	
Description of Existing Downstream Development[4] : _____	
Description of Probable Downstream Development[4] : _____	
Project Narrative[4] (plain language summary of the work proposed): _____	

[2]*For new dam construction, a working name is acceptable and can be changed at a later date.*
[3]*For new dam construction, applicant will leave blank and SCDES will assign new ID number.*
[4]*Attach additional pages and/or include narrative in Engineer's Report if more space is necessary.*

2.C. REVIEW PRIORITY

Permit needed within 90 days of receipt of a **complete permit application**[5] by SCDES?: ☐ Yes | ☐ No If "No", permit needed no later than: Month Day Year

[5] *A "complete permit application" is considered by SCDES to be a permit application that includes a properly completed version of this form, all necessary supporting documentation (examples listed in Section 2.E, some may not be applicable to all permit applications), and participation in a preapplication meeting between SCDES Dam Safety Program permitting staff, the Dam Owner that is the applicant, and the licensed Professional Engineer registered in South Carolina that is to prepare, or has prepared, the permit application.*

2.D. PREAPPLICATION MEETING

☐ Has already been held on: Month Day Year

☐ Has not been held. To be scheduled with SCDES Dam Safety staff.

Permit applicant is hereby notified that its permit application will not be considered complete until a preapplication meeting is held with SCDES Dam Safety Program permitting staff and applicant's licensed Professional Engineer registered in South Carolina to discuss applicable requirements specific to the project's proposed scope of work.

Part 3: Existing Structure Information

Please Note: Select Not Applicable "N/A" for new construction.

3.A. HAZARD POTENTIAL AND SIZE CLASSIFICATION (EXISTING)

☐ Not applicable

Hazard Potential Classification:	Maximum Impoundment Storage Category:	Height Category:
Choose an item.	Choose an item.	Choose an item.

3.B. PURPOSE OF DAM / RESERVOIR (EXISTING)

(Check boxes for all that apply; click in circle for primary purpose)

☐ Not applicable

☐ ◉ Recreation	☐ ○ Sediment Control	☐ ○ Fire Control
☐ ○ Agricultural - Cropland Irrigation	☐ ○ Flood Control	☐ ○ Aquaculture (e.g., fish nursery)
☐ ○ Agricultural - Livestock Watering	☐ ○ Debris Control	☐ ○ Grade Stabilization
☐ ○ Stormwater Management - Wet Pond	☐ ○ Materials Dewatering/Disposal	☐ ○ Hydroelectric
☐ ○ Stormwater Management - Dry Pond	☐ ○ Navigation	☐ ○ Mining Waste (Tailings) Storage
☐ ○ Wastewater - Domestic	☐ ○ Drinking Water Supply	☐ ○ Other (specify below):
☐ ○ Wastewater - Industrial	☐ ○ Fish and Wildlife Pond	_____

3.C. DAM CONSTRUCTION CHARACTERISTICS (EXISTING)

(Check all that apply)

☐ Not applicable

☐ Earthen Embankment - Homogenous	☐ Buttress	☐ Supports a Roadway or Railway
☐ Earthen Embankment - Zoned	☐ Other (specify below):	☐ Portion of Reservoir Excavated
☐ Poured/Formed Concrete	_____	☐ Multiple Dams Create Reservoir
☐ Roller Compacted Concrete	[Reserved	Internal filtered drainage system (select all that apply):
☐ Mortared Brick/Block	Dam Foundation is:	☐ Toe Drain
☐ Mortared Stone	☐ Bedrock	☐ Chimney Drain
☐ Unmortared Stone	☐ Prepared w/ select/compacted fill	☐ Blanket Drain
☐ Rockfill w/ Low-Permeability Core	☐ Unprepared or native soils	☐ Collar Drain
☐ Concrete Single Arch	☐ Unknown	☐ Other (specify below):
☐ Concrete Multiple Arch	☐ Other (specify below):	_____
	_____	☐ Original construction plans exist & were reviewed

3.D. PROPERTIES OF DAM AND RESERVOIR (EXISTING)

☐ Not applicable

Year of Construction: _____ ☐ Estimated | ☐ Unknown	[Reserved]
Length of Dam (feet): _____	Surface Area at Normal Pool (acres): _____
Crest Width (feet): _____	Surface Area at Maximum Pool (acres): _____
Height (feet) : _____	Storage at Normal Pool (acre-feet): _____
Elevation of Dam Crest (feet): _____ Choose an item.	Storage at SDF max (acre-feet): ☐ SDF causes overtopping _____
Normal Pool Elevation (feet): _____ Choose an item.	Storage Capacity[7] (at Maximum Pool) (acre-feet): _____
SDF Pool Elevation (feet): ☐ Overtops _____ Choose an item.	Upstream Slope: _____ H:1V or Slope (%): _____
Design Freeboard (feet): _____	Downstream Slope: _____ H:1V or Slope (%): _____

[6] *See instructions for how "Height" shall be measured.*

[7] *See instructions for how "Storage Capacity" shall be measured.*

Part 4: Proposed Structure Information

4.A HAZARD POTENTIAL AND SIZE CLASSIFICATION (PROPOSED) ☐ No change from existing

Hazard Potential Classification:	Maximum Impoundment Storage Category:	Height Category:
Choose an item.	Choose an item.	Choose an item.

4.B. PURPOSE OF DAM / RESERVOIR (PROPOSED) ☐ No change from existing

(Check boxes for all that apply; click in circle for primary purpose)

☐ ◉ Recreation	☐ ○ Sediment Control	☐ ○ Fire Control
☐ ○ Agricultural - Cropland Irrigation	☐ ○ Flood Control	☐ ○ Aquaculture (e.g., fish nursery)
☐ ○ Agricultural - Livestock Watering	☐ ○ Debris Control	☐ ○ Grade Stabilization
☐ ○ Stormwater Management - Wet Pond	☐ ○ Materials Dewatering/Disposal	☐ ○ Hydroelectric
☐ ○ Stormwater Management - Dry Pond	☐ ○ Navigation	☐ ○ Mining Waste (Tailings) Storage
☐ ○ Wastewater - Domestic	☐ ○ Drinking Water Supply	☐ ○ Other (specify below):
☐ ○ Wastewater - Industrial	☐ ○ Fish and Wildlife Pond	_____

4.C. DAM CONSTRUCTION CHARACTERISTICS (PROPOSED) ☐ No change from existing

(Check all that apply)

☐ Earthen Embankment - Homogenous	☐ Buttress	☐ Supports a Roadway or Railway
☐ Earthen Embankment - Zoned	☐ Other (specify below):	☐ Portion of Reservoir Excavated
☐ Poured/Formed Concrete	_____	☐ Multiple Dams Create Reservoir
☐ Roller Compacted Concrete	[Reserved	Internal filtered drainage system (select all that apply):
☐ Mortared Brick/Block	Dam Foundation is:	☐ Toe Drain
☐ Mortared Stone	☐ Bedrock	☐ Chimney Drain
☐ Unmortared Stone	☐ Prepared w/ select/compacted fill	☐ Blanket Drain
☐ Rockfill w/ Low Permeability Core	☐ Unprepared or native soils	☐ Collar Drain
☐ Concrete Single Arch	☐ Unknown	☐ Other (specify below):
☐ Concrete Multiple Arch	☐ Other (specify below):	_____
	_____	☐ Original construction plans exist & were reviewed

4.D. PROPERTIES OF DAM AND RESERVOIR (PROPOSED) ☐ No change from existing

Year of Construction: _____ ☐ Estimated | ☐ Unknown	[Reserved]
Length of Dam (feet): _____	Surface Area at Normal Pool (acres): _____
Crest Width (feet): _____	Surface Area at Maximum Pool (acres): _____
Height (feet) : _____	Storage at Normal Pool (acre-feet): _____
Elevation of Dam Crest (feet): _____ Choose an item.	Storage at SDF max (acre-feet): _____ ☐ SDF causes overtopping
Normal Pool Elevation (feet): _____ Choose an item.	Storage Capacity[7] (at Maximum Pool) (acre-feet): _____
SDF Pool Elevation (feet): ☐ Overtops _____ Choose an item.	Upstream Slope: _____ H:1V or Slope (%): _____
Design Freeboard (feet): _____	Downstream Slope: _____ H:1V or Slope (%): _____

[6] *See instructions for how "Height" shall be measured.*

[7] *See instructions for how "Storage Capacity" shall be measured.*

Part 5: Dam Owner(s) Notice of Intent to Apply for a SCDES Dam Safety Permit

Please Note: If more than 10 dam owners, provide additional copies of this page as an attachment.

By affixing their signature below the undersigned has read, confirmed as true, and fully accepted the following statement:

"I/We hereby submit this initial application to serve as My/Our notice of intent to apply for a permit to perform above-described work on property(ies) I/We own or control or I am a/We are duly-authorized representative(s) of the entity(ies) that own(s) and/or control(s) said property(ies). I/We admit and accept that I/We or the entity(ies) I/We represent are owners or co-owners of this dam in accordance with the definition of 'Owner' found in SC Code of Laws Section 49-11-120, to wit: 'those who own, control, operate, maintain, manage, or propose to construct a dam or reservoir.'"

5.A DAM OWNER SIGNATURES					
Dam Owner	Printed Full Name	Representative for (or "N/A")	Title/Position	Signature	Date
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

SC DEPARTMENT *of* ENVIRONMENTAL SERVICES

Instructions for Form DES 25-0028

Notice of Intent to File an Application for a SCDES Dam Safety Permit and Request for a Pre-Application Meeting

Instructions:

This form is intended to serve as an <u>initial permit application</u> for a SCDES Dam Safety Permit, the purpose of which is to notify Department staff of the intent to file a final permit application and to initiate discussions of which permit application elements described in Regulation 72-3 are applicable to and will be required for the proposed project to constitute a complete final permit application. A licensed Professional Engineer's involvement is not required in the completion of this form. If desired, this form can be submitted with a final permit application (Form # DES 2602), but a licensed Professional Engineer's involvement is required for a final permit application submitted to the Department. A licensed Professional Engineer's attendance is also required in the pre-application meeting.

Fields may be left blank if information is unknown, but missing information may be a point of discussion at the required preapplication meeting and, if deemed necessary by program staff based on the type of permit application requested and proposed scope of work, will be made a requirement for a complete permit application.

How to submit to SCDES:

Via mail:
SC Department of Environmental Services
Bureau of Water – Dam Safety Program
2600 Bull Street
Columbia, SC 29201

Via Electronic Mail: DESresponse@des.sc.gov

Completing the form:

<u>Part 1: Dam Owner, Operator, and Engineer Information</u>

Part 1.A - Dam Owner Information:

"Dam Owner" definition. As found in SC Code of Laws Section 49-11-120(9), the term "'Owner' means those who own, control, operate, maintain, manage, or propose to construct a dam or reservoir." SC Code of Regulations Section 72-1.F adds to this definition: "In cases where a dam has been abandoned by its owner (either intentionally or unintentionally), and it is necessary to reestablish ownership, the Department shall look first to those entities who hold title to the property on which the dam is constructed and those entities that have acquired some legal responsibility for the dam through covenants or other legal agreements, and secondarily to the other entities who fall under the definition of owner."

"Dam Operator" definition. As found in SC Code of Regulations Section 72-1.G, the term "'Operate' a dam or reservoir means to perform functions intended to preserve or protect the dam or reservoir (or the area

potentially impacted by the dam or reservoir). Examples of operator functions include removal or replacement of flashboards, opening or closing of gates, removal of accumulated trash at the spillway, and maintenance functions such as mowing grass on the dam, etc."

"This owner is also an operator" - This box is to be checked if the Dam Owner identified below also performs some or all of the duties of a dam operator.

"Owner Name" – Enter the complete legal name of the individual or entity that accepts ownership or co-ownership of the dam and is making application to the Department for a permit to construct, repair, alter, or remove a state-regulated dam.

"Owner is a:" - *Select from the dropdown list of choices.* Select the option corresponding to the type/category of entity that best describes the previously named dam owner is to be selected from the dropdown list. If no option sufficiently describes this dam owner, select "Other" and describe the type of entity on the line provided to the right of the dropdown list.

"Owner's Legal Representative" – If the Dam Owner named previously is an individual, click the "Self" checkbox. If the Dam Owner named previously is not an individual, provide on the line to the right of the checkbox the name of an individual legally authorized to act as a representative of the Dam Owner.

"Mailing Address and Street or P.O. Box" – Enter the mailing address street or Post Office Box number at which the Dam Owner receives United State Postal Service (USPS) mail service.

"Mailing Address City, State" – Enter the mailing address city and state at which the Dam Owner receives USPS mail service.

"Mailing Address Zip Code" – Enter the mailing address Zip Code at which the Dam Owner receives USPS mail service.

"Phone Number" – Enter the telephone number with area code that the Dam Owner or Dam Owner's representative can be contacted to discuss matters relating to the permit application.

"Phone Type" - *Select from the dropdown list of choices*. Select the option that best describes the type of telephone service corresponding to the telephone number entered to the immediate left of this field.

"Additional Phone Number" – Provide an additional telephone number for the Dam Owner or Dam Owner's representative, if applicable. See instructions for "Landline" and "Mobile" above.

"Phone Type" - *Select from the dropdown list of choices*. Select the option that best describes the type of telephone service corresponding to the telephone number entered to the immediate left of this field.

"E-mail Address" – Provide an Electronic Mail (E-mail) address for the Dam Owner or Dam Owner's representative. Correspondence regarding the permit application may be sent via E-mail to the Dam Owner, Dam Operator, and the Engineer.

"Ownership a result of" – *Select from the dropdown list of choices*. Select the option corresponding to the reason/legal instrument that best describes the previously named Dam Owner's reason for ownership or co-ownership of the dam is to be selected from the dropdown list. If no option sufficiently describes the reason for this Dam Owner's ownership, select "Other" and describe the reason on the line provided to the right of the dropdown list.

"If dam ownership is resulting from title to property, enter the tax parcel ID #s (TMS #s) for this owner's

parcel(s):" – Consult the respective County's Tax Assessor web site to find the tax parcel identification numbers (also referred to as tax map serial numbers or TMS numbers) for all parcels owned by this Dam Owner that contain a portion of the dam and then enter the tax parcel ID numbers on the line provided. Then select the "County" in which the parcel(s) is(are) located from the dropdown list. If parcel(s) are in more than one county, enter the parcel numbers contained in County A in top line, select County A name from the dropdown list, then enter the parcel numbers contained in County B in bottom line, and select County B name.

Additional Dam Owners: Fields are provided for "Additional Dam Owners," if applicable. The same information as described above is requested for each additional dam owner. If more than three Dam Owners, please submit additional copies of Page 1 as needed to capture full ownership information.

Part 1.B - Dam Operator Information:

See above for definition of "Dam Operator."

"Dam does not have a dedicated operator" – This box is to be checked if the Dam Owner (or one of the Dam Owners) also serves as the Dam Operator. If box is checked, the rest of Part 1.B can be left blank.

"Operator Entity Name" – If this Dam has an Operator, enter the name of that individual or entity that performs this role.

"Operator's Legal Representative" – If the Dam Operator named previously is an individual, click the "Self" checkbox. If the Dam Operator named previously is not an individual, provide on the line to the right of the checkbox the name of the individual legally authorized to act as a representative of the Dam Operator.

"Mailing Address and Street or P.O. Box" – Enter the mailing address street or Post Office Box number at which the Dam Operator receives United State Postal Service (USPS) mail service.

"Mailing Address City, State" – Enter the mailing address city at which the Dam Operator receives USPS mail service. Select the mailing address state from the dropdown list of choices.

"Mailing Address Zip Code" – Enter the mailing address Zip Code at which the Dam Operator receives USPS mail service.

"Phone Number" – Enter the telephone number with area code that the Dam Operator or Dam Operator's representative can be contacted to discuss matters relating to the permit application.

"Phone Type" - *Select from the dropdown list of choices*. Select the option that best describes the type of telephone service corresponding to the telephone number entered to the immediate left of this field.

"Additional Phone Number" – Provide an additional telephone number for the Dam Operator or Dam Operator's representative, if applicable. See instructions for "Landline" and "Mobile" above.

"E-mail Address" – Provide an Electronic Mail (E-mail) address for the Dam Operator or Dam Operator's representative. Correspondence regarding the permit application may be sent via E-mail to the Dam Owner, Dam Operator, and the Engineer.

"Description of Operator's responsibilities" – A description of which aspects of the dam and/or reservoir's maintenance and operations the Dam Operator is responsible for. Examples include: removal or replacement of flashboards, opening or closing of gates, removal of accumulated trash at the spillway, and maintenance functions such as mowing grass on the dam

Engineer Information:

"Engineer" definition. As found in Regulation 72-1.P, the term "'Engineer' means a registered professional engineer licensed to practice in the State or an individual employed by the Natural Resources Conservation Service with the title 'engineer' who is qualified and authorized to sign documents prepared and submitted by USDA-Natural Resources Conservation Service."

"Company Name" – Enter the name of the engineering firm that employs the Engineer should be provided on the line to the right of Company Name. If Engineer is not employed by a firm but is self-employed, the "N/A" checkbox should be checked to indicate "Not Applicable."

"Engineer's Name" – Enter the name of the engineer that is signing and sealing the design report and construction plans and specifications. The Engineer's Name should appear as it is displayed on the SC Department of Labor, Licensing, and Regulations' "Licensee Lookup" web application.

"South Carolina PE Registration No." – Enter the Engineer's registration number with the SC State Board of Registration for Professional Engineers and Surveyors (the "Board").

"South Carolina PE Registration Expiration Date" – Enter the Engineer's current Professional Engineer's license expiration date assigned by the Board.

"Mailing Street Address or P.O. Box" – Enter the mailing address street or Post Office Box number at which the Engineer receives United State Postal Service (USPS) mail service.

"Mailing Address City, State" – Enter the mailing address city at which the Dam Operator receives USPS mail service. Select the mailing address state from the dropdown list of choices.

"Mailing Address Zip Code" – Enter the mailing address Zip Code at which the Engineer receives USPS mail service.

"Phone Number" – Enter the telephone number with area code at which the Engineer can be contacted to discuss matters relating to the permit application.

"Phone Type" - *Select from the dropdown list of choices*. Select the option that best describes the type of telephone service corresponding to the telephone number entered to the immediate left of this field.

"Additional Phone Number" – Provide an additional telephone number for the Engineer, if applicable. See instructions for "Landline" and "Mobile" above.

"E-mail Address" – Provide an Electronic Mail (E-mail) address for the Engineer. Correspondence regarding the permit application may be sent via E-mail to the Dam Owner, Dam Operator, and the Engineer.

<u>Part 2 – Proposed Project Information</u>

Part 2.A - Project Type Selection:

"Construct a New Dam" – Select this option if a new dam is proposed for construction where no existing dam or remnants of a dam exist and it is believed that said dam will fall under the jurisdiction of the Dams and Reservoirs Safety Act. If potential applicant is unsure if the proposed dam would be subject to state-regulation, consult with the Department's Dam Safety Program before completing this application.

Reconstruction and restoration of a dam (e.g., if former dam was breached by a natural event or removed under a dam removal permit) may be better classified as a project to Alter an Existing Dam; however, all requirements of a permit application to construct a new dam may be applied to the alteration project.

"Repair an Existing Dam" – Select this option if an existing state-regulated dam requires repairs to restore the dam to a previous condition, where said repairs will not modify or alter the dam in a way that changes the dam's impoundment storage capacity, hazard potential classification, size classification, spillway capacity, spillway control elevations, or any other change that could substantially alters the dam or reservoirs' size or capacities.

"Alter an Existing Dam" – Select this option if an existing state-regulated dam, with or without accompanying repairs, will be altered in a way that changes the dam from any previous condition. Alterations may include raising or lowering dam height to alter the dam's impoundment storage capacity, modifications to spillways and spillway control elevations, changes that or any other change that could substantially alters the dam or reservoirs' size or capacities. In general, any change(s) that affect the dam's hazard potential classification, size classification, spillway capacity, and spillway control elevations are alterations. Demolition of an existing dam and construction of a new dam in the same location is considered an alteration.

"Remove an Existing Dam" – Select this option if an existing state-regulated dam will be altered in a way that removes the dam's ability to impound water or other fluids. This includes removal of only a portion of the dam structure to remove the dam's ability to impound up to the complete demolition/deconstruction of the dam returning the area within the dam's footprint to a pre-existing condition that existed before the dam was constructed.

"Work in the Reservoir Only" – Select this option if the proposed activities are confined to the reservoir and will not impact the dam itself (such as dredging within the reservoir). This activity could require a permit and trigger requirements for dam modifications should the work change the dam's impoundment storage, which could also have an effect on the dam's hazard potential classification and/or size classification. It is advised that dam owners and/or consulting engineers arrange a pre-application meeting with the Dam Safety Program to determine whether the proposed work requires a permit before starting on a permit application.

"Emergency Repair" – Select this option if the Dam Owner is using Form DES 2602 to notify the Department that emergency repairs are required and that the Dam Owner intends to implement necessary repairs under the authority granted by SC Code of Laws Section 49-11-190.(C), which states: "For an emergency where the owner finds repairs are necessary to safeguard life or property, he may start the repairs immediately but shall notify the department at once of the proposed repair and work underway." In such circumstances, Form DES 2602 may be used to convey to the Department the nature of the emergency repairs. A licensed Professional Engineer's involvement is not required in an emergency repair situation, but is strongly advised.

"Perform Intrusive Geotechnical Investigation" – Select this option if a proposed geotechnical investigation requires drilling or excavating into the dam, for example, to dig test pits or to install piezometers. It is advised that dam owners and/or consulting engineers arrange a pre-application meeting with the Dam Safety Program to determine whether the proposed work requires a permit before starting on a permit application.

"Utility Work in Dam" – Select this option if the proposed activities include installing, removing, repairing underground utilities within an earthen embankment dam or in the foundation soils of any dam. Depending on the extent and scope of disturbance to the dam and appurtenant works, a permit may be required. It is advised that dam owners and/or consulting engineers arrange a pre-application meeting with the Dam Safety Program to determine whether the proposed work requires a permit before starting on a permit application.

Part 2.B - Project Identification and Location

"Dam Name" – Enter the name or names used to identify the dam. Please note a dam's name is frequently different than the impoundment/water body's name; likewise, a dam frequently goes by several names. All known names should be provided.

"Joint State-Federal Dam ID" – Enter the joint National Inventory of Dams Number and State Inventory Number assigned to the dam by the SCDES Dam Safety Program. If unknown, this number can be obtained from the SCDES Dam Safety Program. For dams that are proposed for construction, this field should be left blank and the dam's ID number will be assigned by the Program.

"Impoundment/Waterbody Name" – Enter the common name or names (list all that apply) for the impoundment or waterbody (i.e., the lake or pond) created by the dam. Please note the impoundment/waterbody's name may be different than the dam's name. For example, Lake Murray in Lexington County is the name of the waterbody created by the Dreher Shoals Dam, the dam's official name even though it is more commonly referred to as the Lake Murray Dam. If impoundment/waterbody is unnamed, please input 'Unnamed' in this field.

"County(ies)" – *Select from the dropdown list of choices*. Select the County (or Counties, if the footprint of the dam and appurtenant works are not within a single county) the dam is located in. If dam and appurtenant works are located in more than 2 counties (extremely rare cases), choose the 2 that encompass the greatest share of the dam's footprint.

"Latitude" – Enter the geographic spherical coordinate corresponding to the angle north of the equator based on the location of the centerpoint of the dam, preferably in decimal degrees format, to at least the 5th decimal point (e.g., 34.23431 degrees). The coordinate system for Latitude and Longitude should be World Geodetic System 1984 (WGS 84), which is what most web-based mapping systems (e.g., Google Earth) will return latitude/longitude coordinates in WGS84.

"Impounded Stream Name"- If the dam is or is proposed to be built across a stream or river, provide the common name (or names) of that stream or river. A useful tool for finding stream names is The National Map Viewer from the United States Geological Survey (USGS), which displays the official Federal government names of geographic features, available at the following website: https://www.nationalmap.gov/viewer.
If the stream or watercourse the dam is built on is not named, enter the first downstream named stream and check the box "Is an unnamed tributary to the named stream." If the dam is built or is to be built as an off-stream reservoir, select N/A for 'Not Applicable.'

"Located in this major river's watershed" – *Select from the dropdown list of choices*. Select which one of the eight major South Carolina rivers in which outflow from the dam eventually reaches said river. If outflow is directly to the ocean the without first reaching one of the major rivers, select "Not Applicable." A useful tool for finding watersheds is the Watershed Atlas from the South Carolina Department of Environmental Services, available at the website:

"12-digit Hydrologic Unit Code" - Enter the Hydrologic Unit Code (HUC) for the watershed in which the dam is located. A useful tool for finding the dam's 12-digit HUC is the SC Watershed Atlas from the South Carolina Department of Environmental Services, available at the following website: https://gis.des.sc.gov/watersheds.
To find the 12-digit HUC using the SC Watershed Atlas website, first click on "OK" from the Welcome splash screen to enter the application. Then, in the "Layers" list on the left side of the screen click on the small triangle next to the layer named "Nat'l Watershed Boundaries" to expand the list of sub-layers. Once the sub-layers are visible (there should be four sub-layers), click inside the boxes for "Nat'l Watershed Boundaries" (the parent layer) and "12-digit Watersheds" (the sub-layer). The remaining sub-layers should remain un-checked. Lastly, to find the dam's 12-digit HUC, navigate to the dam using the mouse wheel to zoom in or out

and clicking and holding the left mouse button to pan left, right, up or down. Once the dam and reservoir are visible on screen, left click on the map within the boundary of the reservoir and a pop-up window will appear that identifies the data contained in the active layers corresponding to the location of your click. If more than one sub-layer is active, the pop-up will contain data from multiple layers. Ensure the data you enter into Form DES 2602 is for the 12-Digit Watershed and not a different sub-layer.

"Estimated Stream Base Flow" – An estimate of the in-bank flow of the stream or river, if dam is built or is to be built across a stream or river. If the dam is built or is to be built as an off-stream reservoir, select N/A for 'Not Applicable.'

"Off Stream Reservoir" – Check this box if the impoundment created by the dam does not receive watershed run off or stream or river inflow but is (typically) filled via pumping and the rainfall that falls solely within the impoundment's footprint. Examples of off-stream reservoirs include pumped storage reservoirs for drinking water or hydroelectricity generation, drinking water and wastewater treatment ponds or basins, industrial process ponds, mining tailings ponds, etc.

"Watershed Area" – Enter the area of land (in acres or square miles) that drains to a common outlet point, i.e., the dam. In the case of on-stream reservoirs, the watershed area is the total contributing surface area of land that contributes drainage/runoff to the stream which is impounded by the dam, with the total watershed drainage ultimately being conveyed through the dam's spillway works. In the case of off-stream reservoirs, it this is typically no more than the surface area of the reservoir itself, possibly including some surrounding land area that may contribute to an intermittent (i.e., ephemeral) surface water but not contributing to a perennial stream.

"Longitude" – Enter the geographic spherical coordinate corresponding to the angle west of the prime meridian based on the location of the centerpoint of the dam, preferably in decimal degrees format, to at least the 5th decimal point (e.g., -81.33296 degrees). The coordinate system for Latitude and Longitude should be World Geodetic System 1984 (WGS 84), which is what most web-based mapping systems (e.g., Google Earth) will return latitude/longitude coordinates in.

"Proposed Date for Commencement of Work" – Enter an estimated date for when the first physical actions authorized under the Department permit will begin to facilitate the approved scope of work.

"Proposed Date for Completion of Work" – Enter an estimated date for which the final physical actions authorized under the Department permit will occur, also corresponding with a state of completion for which an engineer is able to fully ascertain that the work was in accordance with the plans and specifications approved by the Department.

"Description of Watershed Characteristics" – Enter a generally narrative summary of the dam and reservoir's watershed in terms of existing and proposed land usage, state of development, degree of imperviousness, average slope/topography, etc., needed to convey a clear understanding of the area that contributes runoff to the dam and reservoir. Curve numbers, hydrologic soil groups, times of concentration, longest flowpaths, etc., are overly technical for this section and are best reserved for supporting hydrologic and hydraulic calculations included with the application as supporting documentation.

"Description of Existing Downstream Development" – Enter a generally narrative summary of the developed area downstream of the dam (i.e., types of buildings, infrastructure, utilities and other man-made structures that exist) that could be impacted by misoperation or failure of the dam, from the perspective of hazard potential the dam could pose based on the proposed scope of work.

"Description of Probable Downstream Development" – Enter a generally narrative summary of known or anticipated future developments in terms of buildings, infrastructure, utilities, and other man-made

structures that are reasonably likely to occur in a foreseeable future (i.e., 10 to 20 years) in the area downstream of the dam that could be impacted by misoperation or failure of the dam, from the perspective of hazard potential the dam could pose based on the proposed scope of work.

"Project Narrative" – Enter a generally narrative summary of the activities for which the permit is being requested. For construction of a new dam, a project narrative could simply be "Construct a new earthen embankment dam," although more detail is preferred to too little. For repairs or alterations to an existing dam, the discrete elements of the repair or alteration project should be described.

Part 2.C – Review Priority

"Permit need within 90 days of receipt of a complete permit application by SCDES?" – If the applicant's timeframe for construction is such that a permit is needed within 90 days, it is requested the applicant check the box next to "Yes." As a result of the 2025 General Assembly's Act No. 69, Part 1B, Section 55.26, the Department is required to issue a decision on a permit application within 90 days of receipt of a complete permit application, unless both the applicant and the Department agree in writing to a different permit decision timeframe. The purpose of this question is to determine if the applicant's project timeline necessitates a permit decision within 90 days, and if so, informs Department staff that a higher review priority is required.

If the applicant's timeframe for construction is such that a permit is not needed within 90 days, the applicant is requested to check the box next to "No," to indicate that the applicant is willing to establish a new timeframe, and then click on "Click or tap to enter a date" and enter the need-by date for the requested permit. The Department will then prepare an agreement for the new permit decision timeframe (e.g., 180 days to reach a permit decision) to be executed by the applicant and SCDES.

Part 2.D – Preapplication Meeting

"Has already been held on:" - If a preapplication has already been held, the applicant shall place a check in the box and then click where indicated to enter the date the preapplication meeting was held. The 2025 General Assembly's Act No. 69 authorizes SCDES to require a preapplication meeting as a requirement of a complete permit application. A "complete permit application," therefore is considered by SCDES for purposes of compliance with the Act, to consist of three main elements: 1) a pre-application meeting, 2) a properly completed version of Form DES 2670, and 3) all necessary supporting documentation for the type of project proposed, to be compiled as a Design Report with accompanying Plans and Specifications, as specified by Regulation 72-3.

"Has not been held" - If the preapplication has not been held, the applicant shall place a check in the box.

<u>Part 3 - Existing Structure Information</u>

Part 3.A - Hazard Potential and Size Classification:

Note: Applicant shall check the "Not applicable" checkbox if a new dam is proposed where there is not an existing structure.

"Hazard Potential Classification" – *Select from the dropdown list of choices.* This corresponds to the Hazard Potential Classification of the existing dam as assigned by the Department. Hazard Potential is defined as 'the potential for causing property damage or loss of human life in the event of failure or improper operation of a dam or reservoir. There are three options for Hazard Potential Classification: High Hazard Potential,

Significant Hazard Potential, and Low Hazard Potential.

"Maximum Impoundment Storage" – *Select from the dropdown list of choices.* This corresponds to the maximum Impoundment Storage, in acre-feet, of the existing dam and reservoir, which is one of the determining factors in the dam's size classification. "Impoundment Storage" is also referred to as "Storage Capacity" and is defined as the volume of water or other fluid contained in the impoundment at maximum storage elevation (i.e., when impounded fluid is at the top of the dam).

"Height" – *Select from the dropdown list of choices.* This corresponds to the Height of the dam ("the barrier") and is measured in feet from the top of the dam to the natural bed of the stream or water course at the downstream toe of the barrier; if the barrier is not across a stream or water course, Height is measured from the top of the dam to the lowest elevation of the outside limit of the barrier.

Part 3.B - Purpose of Structure:

Note: Multiple options may apply. Please check the boxes for all purposes that the existing dam provides/is used for. Please click on the circle (i.e., the "radio button") for the purpose that represents the dam's primary purpose – selection of only one radio button is allowable.

"Recreation" – Select this option if the dam was not designed for any specific purpose but to impound a natural stream or water course for fishing, swimming, boating, etc., or to enhance property values as an aesthetic feature/amenity.

"Agricultural – Cropland Irrigation" – Select this option if the dam's purpose is to provide a source of irrigation water for crops.

"Agricultural – Livestock Watering" – Select this option if the dam's purpose is to provide a source of drinking water for livestock.

"Stormwater Management – Wet Pond" – Select this option if the dam's purpose is to provide stormwater management for frequent return period floods (e.g., 2- and 10-year floods), retains a permanent pool, yet still provides significant freeboard between normal pool and top of dam for attenuating stormwater and flood inflows (i.e., stormwater retention pond).

"Stormwater Management – Dry Pond" – Select this option if the dam's purpose is to provide stormwater management for frequent return period floods (e.g., 2-and 10-year floods), but the dam is designed with a low-level outlet or bottom drain to fully empty the reservoir in between stormwater/flood events. There is no, or there is minimal, permanent pool in a dry pond (i.e., stormwater detention pond).

"Wastewater – Domestic" – Select this option if the dam's purpose is to provide a storage basin for domestic wastewater processing, whether treated, untreated, or some interim stage of the treatment process.

"Wastewater – Industrial" – Select this option if the dam's purpose is to provide a storage basin for industrial wastewater processing, whether treated, untreated, or some interim stage of the treatment process.

"Sediment Control" – Select this option if the dam's purpose is to provide a sediment trapping/removal capability as part of a stormwater management and sediment control system. All dams provide some degree of sediment trapping, but this option applies only to dams where that was or is to be an engineered aspect of the dam and reservoir's design.

"Flood Control" – Select this option if the dam's purpose was designed to provide a flood control or stormwater management purpose for less frequent return period floods (e.g., 25-year, 50-year, 100-year

floods). Dam may or may not retain a permanent pool. The dam should provide much more freeboard between normal pool and top of dam for attenuating flood inflows than a stormwater management wet pond provides.

"Debris Control" – Select this option if the dam's purpose is to create a barrier to floating debris, to prevent it from being carried further downstream, and to facilitate collection and disposal of debris.

"Materials Dewatering/Disposal" – Select this option if the dam's purpose is to provide a location where saturated materials (such as dredged soils or industrial sludges) can be placed to allow excess water to drain and be collected/removed (potentially for subsequent treatment in the case of industrial sludges), and may be associated with permanent disposal of said materials by conversion of the filled impoundment to a landfill.

"Navigation" – Select this option if the dam's purpose is to create a navigable waterway or to improve the suitability of navigation of an existing navigable waterway. The dam will likely also require a system of locks to fulfill this purpose.

"Drinking Water Supply" – Select this option if the dam's purpose is to provide a raw water supply to a drinking water treatment plant.

"Fish and Wildlife Pond" – Select this option if the dam's purpose is to provide a source of water to encourage and enhance ecological viability and diversity of aquatic, wetland, and terrestrial wildlife species.

"Fire Control" – Select this option if the dam's purpose is to provide a source of water for fire suppression.

"Aquaculture" – Select this option if the dam's purpose is to provide an impoundment for the controlled cultivation of aquatic organisms such as fish, crustaceans, mollusks, algae and other organisms of value.

"Grade Stabilization" – Select this option if the dam's purpose is to control or prevent creation of or deepening erosion in gullies or overly excised channels. The existence of the dam provides inundation of the area that would otherwise be susceptible to headcutting erosion due to steep topography, which results in a reduction of water velocities and associated scour of the soils.

"Hydroelectric" – Select this option if the dam's purpose is to impound water that can then be released to provide mechanical energy to power a turbine/generator for the production of electricity.

"Mining Waste (Tailings) Storage" - Select this option if the dam provides or is intended to provide a storage basin for mining waste products ("tailings"), which may include a mixture of liquids and solids.

"Other (specify)" – Select this option if none of the above options sufficiently describe the purpose of/for the dam, and then describe that purpose on the line provided.

Part 4 – Proposed Structure Information

See instructions in Part 3 - Existing Structure Information (above).

Part 5 – Dam Owner(s) Request for a SCDES Dam Safety Permit

"Printed Full Name" – Enter the full name of the of the signatory.

“Representative for” – Enter the legal name of the entity the signatory represents. If signatory is self-representing, enter “N/A.”

“Title/Position” – If signatory is a representative for a corporation or other entity and holds a title or position with said entity, enter that information in this space.

“Signature” – The signatory shall sign their name in this space.

“Date” – The signatory shall enter the date that their signature was applied to Form DES 2602.