

GEORGIA ENGINEERING JOB APPROVAL AUTHORITY

NAME _____ TITLE _____ GRADE _____ LOCATION _____

DELEGATED BY _____ TITLE _____ DATE _____
(Responsible Engineer)

CONCURRED BY _____ TITLE _____ DATE _____
(Supervisor)

This form will be reviewed with the employee annually and revised as needed. If no significant changes are made, the following table will be used to indicate that the review has been made by the appropriate engineering personnel.

REVIEWED BY	TITLE	COMMENTS	DATE

DEFINITIONS:

Inventory and Evaluation (I&E) - Onsite observation of an exploratory nature and preparation of sound alternative solutions of sufficient intensity for the cooperater to make treatment decisions. May require assistance from higher engineering job approval levels for large or complex jobs.

Design (DSN) - Designing and checking all aspects of supporting data, drawings, and specifications to ensure that the planned practice will meet the purpose for which it is installed. Also includes setting any specific requirements.

Construction (CST) - Surveys, layout, staking, inspections of materials and work, and making tests to determine that the job meets the plans and specifications. Jobs where letters of inspection instructions are issued are not included on this chart.

NRCS - Indicates those practices that only NRCS employees can be granted job approval authority. All other practices can be delegated to County, District and other non-NRCS employees.

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES						MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	VI	I&E	DSN	CST
Any Practice	---	Hazard potential as defined by Sec. 503 of NEM	Class	Low	Low	Low	Low	Low	Significant	I	I	I
Any Practice	---	Alter the visual resources of beaches and shorelines on oceans		None	None	None	None	None	All	I	I	I

DAMS AND STRUCTURES ^{1/}

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES					MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	I&E	DSN	CST
Commercial Fishponds	397 ^{2/}	Box Culvert, Area Open	sq. ft.	None	4	8	12	All			
Dam	402 ^{2/}	Conduit (barrel)	in.	12	24	36	48	All			
Grade Stabilization Structure	410 ^{2/}	Conduit (siphon)	in.	4	8	12	18	All			
Irrigation Pit or Regulating Reservoir	552 ^{2/}	Drainage Area	ac.	160	320	640	1320	12,800			
		Effective Height ^{3/}	ft.	15	20	25	30	35			
Irrigation Storage Reservoir	436 ^{2/}	Embankment over active fault		None	None	None	None	None			
Pond	378 ^{2/}	Open Channel Spillway Flow	cfs.	150	300	500	1000	All			
Sediment Basin	350 ^{2/}	Pipe Conduit Capacity	cfs.	25	75	125	200	All			
Structure for Water Control	587 ^{2/}	Storage x Effective Height	ac. ft.x ft.	500	1000	2000	3000	All			
NRCS		Total Storage	ac. ft.	10	25	50	100	All			
Fish Raceways or Tank	398	Concrete, Block, or Tank Surface Area	ac.	None	0.1	0.2	0.5	All			
NRCS		Earthen, Surface Area	ac.	None	0.1	0.5	2.0	All			
Pond Sealing or Lining - Flexible Membrane	521A	Perm. Pool Depth Area	ft. ac.	10 1/2	15 1	20 2	25 5	All All			
NRCS											
Pond Sealing or Lining - Soil Dispersant	521B	Perm. Pool Depth Area	ft. ac.	10 2	15 4	20 8	25 10	All All			
NRCS											
Pond Sealing or Lining - Bentonite	521C	Perm. Pool Depth Area	ft. ac.	10 2	15 4	20 8	25 10	All All			
NRCS											
Pond Sealing or Lining- Compaction Only	521F	Perm. Pool Depth Area	ft. ac.	10 2	15 4	20 8	25 10	All All			
NRCS											

WASTE MANAGEMENT SYSTEMS

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES					MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	I&E	DSN	CST
Animal Mortality Facility	316	Animal Units ^{4/}	No.	250	500	1000	1500	All			
Animal Trails and Walkways	575	Surface Treatment	Kind	Earth	Earth	Earth	Gravel	All			
		Length	ft.	500	1000	2000	5000	All			
Composting Facility *NRCS*	317	Animal Units ^{4/}	no.	250	360	550	1000	All			
Manure Transfer *NRCS*	634	Animal Units ^{4/}	no.	None	120	300	600	1000			
Closure of Waste Impoundments *NRCS*	360	Surface Area	ac.	None	1	2	5	10			
Waste Field Storage *NRCS*	749	Animal Units ^{3/}	no.	None	All	All	All	All			
Waste Storage Facility *NRCS*	313	Liquid Storage Capacity	1000 cu.ft.	100	200	500	1000	2000			
		Solid Separation Capacity	1000 cu.ft.	1	2	5	10	all			
		Dry Stack Animal Units ^{4/}	no.	250	500	1000	1500	All			
Waste Treatment Lagoon *NRCS*	359	Aerobic Surface Area	ac.	None	2	5	10	25			
		Anaerobic Volume	1000 cu.ft.	100	200	500	1000	2000			
		Effective Height of Dam	ft.	10	15	20	30	35			

WATER MANAGEMENT SYSTEMS

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES					MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	I&E	DSN	CST
Agrichemical Handling Facility	702	Secondary Containment	gal.	None	None	500	1000	5000			
NRCS		Eave Height	ft.	None	10	14	All	All			
Bedding	310	System Operating as Unit	ac.	20	40	All	All	All			
Diversion	362	Capacity	cfs	50	100	250	500	All			
Filter Strip	393	Area Protected	ac.	1	5	10	25	All			
Grassed Waterway	412	Capacity	cfs	75	150	200	300	All			
Lined Waterway or Outlet	468	Design Capacity	cfs	None	50	100	200	All			
Roof Runoff Management	558	Area of Roof	ac	0.5	1	2	10	All			
Row Arrangement	557	Area of Field	ac	40	80	160	320	All			
Subsurface Drain	606	System Length	1000 ft	2.5	5	10	20	All			
		Diameter	in.	6	8	12	18	All			
Surface Drainage Field Ditch	607	Area of System	ac.	40	80	160	320	All			
Surface Drainage Main and Lateral	608	Design Capacity Velocity	cfs	50	100	200	300	1000			
NRCS			fps	4	5	6	8	10			
Terraces	600	Area Protected	ac.	25	50	100	250	All			
Underground Outlet	620	Diameter	in.	6	8	12	18	All			
Water & Sediment Control Basin	638	Height	ft.	6	8	12	15	All			
		Drainage Area	ac	5	10	50	100	All			

WATER SUPPLY

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES					MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	I&E	DSN	CST
Dry Hydrant	432	Pump Capacity	gpm	None	300	750	All	All			
		Water Source	Kind	River or non-fluctuating lake	Pond or fluctuating lake	Stream	All	All			
Pipeline *NRCS*	516	Pressure	psi	10	20	50	100	300			
Pumping Plant for Water Control *NRCS*	533	Axial Flow Pump Capacity	1000 gpm	5	8	10	20	50			
		Centrifugal and Turbine Pump Capacity	1000 gpm	None	1	2	2.5	3.5			
		Static Head	ft.	None	100	200	250	350			
Spring Development	574	Total Flow	gpm	5	10	50	100	All			
Water Well *NRCS*	642	Diameter	in.	none	4	6	8	All			
Watering Facility	614	Capacity	gal.	300	500	750	1000	All			
Well Decommissioning *NRCS*	351	Type of Well		Dug	Drill	Drill	Drill	Drill			
		Depth	ft.	25	100	200	All	All			
		Karst Topography		no	no	no	no	yes			
		Flowing Artesian		no	no	no	no	no			

STREAM CHANNEL

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES					MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	I&E	DSN	CST
Clearing & Snagging	326	Length of Reach	1000 ft.	1	2	5	10	All			
Dike *NRCS*	356	Hazard	class	None	III	III	III	III			
		Height	ft.	None	3	6	9	12			
Land Clearing	460	Area Treated	ac.	10	25	50	160	All			
Open Channel *NRCS*	582	Design Capacity Velocity	cfs	150	300	500	750	1000			
			fps	4	6	8	9	10			
Stream Channel Stabilization *NRCS*	584	Design Capacity Velocity	cfs	150	300	500	750	1000			
			fps	4	6	8	9	10			
Stream Crossing *NRCS*	578	Bankfull Capacity	cfs	50	100	200	500	1000			
Streambank and Shoreline Protection ^{5/} *NRCS*	580	Bankfull Capacity	cfs	200	500	1000	2500	5000			
		Bankfull Velocity	fps	2	4	6	8	10			
		Water Height Above Shoreline	ft.	None	None	1	2	3			

IRRIGATION

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES					MAX APPROVAL AUTHORITY			
				I	II	III	IV	V	I&E	DSN	CST	
Land Smoothing	466	Area	ac.	None	25	40	160	All				
Irrigation System Sprinkler	442	Area	ac.	None	40	160	320	All				
Irrigation System Surface and Subsurface	443	Area	ac.	None	40	160	320	All				
Irrigation System, Microirrigation	441	Area	ac.	None	10	20	40	All				
Irrigation Water Conveyance Pipe	430	Pipeline Capacity	gpm	None	250	500	1500	3500				
Irrigation Water Management	449	Area Served	ac.	160	320	640	All	All				

RECREATION^{5/}

PRACTICE NAME	PRAC. CODE	CONTROLLING FACTOR	UNITS	JOB CLASSES					MAX APPROVAL AUTHORITY		
				I	II	III	IV	V	I&E	DSN	CST
Access Road	560	Culvert Pipe, I.D.	ft.	1.5	2	4	5	6			
		Box Culvert, Area Open	sq.ft.	None	4	8	12	16			
		Surface Treatment	Type	Earth	Gravel	Concrete	Asphalt	All			
		Length	1000 ft.	2	5	10	15	All			
		Grade (Max.)	%	5	6	8	15	All			
Heavy Use Area Protection	561	Surface Treatment	Kind	Gravel	Concrete	Asphalt	All	All			
		Area Treated	sq.ft.	2500	5000	10000	25000	All			
Obstruction Removal	500	No Hazard, Area Treated	ac.	5	20	40	80	All			
Recreation Land Grading & Shaping	566	Area Graded	ac.	4	8	10	All	All			
Recreation Trail and Walkway	568	Surface Treatment	Kind	Mulch	Gravel	Asphalt	All	All			
		Length	1000 ft.	1	5	10	25	All			

^{1/} Reference NEM 520.22. Dams & Structures - All with relatively impervious cutoff, simple foundation needs, and standard or proven designs not exceeding the limits set forth below.

^{2/} All Controlling Factors apply for these practice codes.

^{3/} Effective height of dam is the difference in elevation in feet between the lowest open channel emergency spillway crest and the lowest point in the original profile along the centerline of the dam. If there is no open channel emergency spillway, the top of the dam becomes the upper limit.

^{4/} Animal Unit (A.U.) equals 1000 lbs. animal live weight.

^{5/} Approval to be made by State Conservation Engineer on revetments, bulkheads, and groins for beaches and shorelines.

Practices not included above and the following Engineering practices or components shall have State Conservation Engineer approval: 430 - Irrigation Water Conveyance with greater than 50 psi and 3500 gpm; Box Inlet Drop Spillway; Toe Walls; Concrete Chutes; Slide Gates; Retaining Walls and Long Span Pipes.