

Part 501 – Authorizations
Subpart A – Review and Approval

501.9 Engineering Job Approval Authority

Name	<i>Employee Name</i>	Title	<i>Field Office Engineer</i>	Grade	<i>GS-9</i>
		Location	<i>Town, State</i>		
Delegated by	<i>Delegator Name</i>	Title	<i>Area Engineer</i>	Date	<i>4/4/2016</i>
	Responsible engineer				
Concurred by	<i>Supervisor Name</i>	Title	<i>District Conservationist</i>	Date	<i>4/7/2016</i>
	Supervisor				

Practice Code	Practice Name	Controlling Factor	Units	Class I	Class II	Class III	Class IV	Class V	Class VI	Maximum Approval Authority
	Any practice	Hazard potential as defined in 501.7C	class	Low	Low	Low	Low	Low	Significant	<i>Class I</i>
	Any practice	Alters the visual resources of beaches and shorelines on oceans and the Great Lakes		None	None	None	None	None	All	<i>Class I</i>
	Recreation Facilities - Water supply or Sewage Treatment	Onsite daily design capacity	people	10	25	50	100	200	400	<i>Class II</i>
		Offsite daily design capacity	people	25	50	100	200	400	800	<i>Class II</i>
313	Waste Storage Facility	Storage capacity	thousand cubic feet	100	200	500	1,000	2,000	5,000	<i>Class III</i>
317	Composting Facility	Wall height	feet	3	4	6	8	All	All	<i>Class II</i>
		Litter or manure capacity	cubic feet	None	10,000	20,000	50,000	All	All	<i>Class III</i>
320	Irrigation Canal or Lateral	Capacity	cubic feet per second	20	50	100	200	500	1,000	<i>Class III</i>
326	Clearing and Snagging	Length of reach	feet	1,000	2,500	5,000	15,000	All	All	<i>Class I</i>
348	Dam, Diversion	Streamflow (25-yr)	cubic feet per second	100	500	1,000	1,500	2,000	3,000	<i>Class III</i>
		Flow diverted	cubic feet per second	25	50	100	150	200	500	<i>Class III</i>
		Height of drop	feet	3	3	5	7	8	15	<i>Class III</i>
359	Waste Treatment Lagoon	Aerobic surface area	acres	1	2	5	10	25	50	<i>Class II</i>
		Anaerobic volume	thousand cubic feet	100	200	500	1,000	2,000	5,000	<i>Class II</i>
350	Sediment Basin	Drainage area	square miles	0.5	1	2	4	20	40	<i>Class III</i>
		Effective height	feet	10	15	20	25	35	50	<i>Class III</i>
		Conduit diameter	inches	12	24	36	42	48	60	<i>Class III</i>
		Storage x height	acre feet x feet	500	1,000	2,000	3,000	All	All	<i>Class III</i>
		Embankment over active fault		None	None	None	None	None	None	None

Title 210 - National Engineering Manual

Practice Code	Practice Name	Controlling Factor	Units	Class I	Class II	Class III	Class IV	Class V	Class VI	Maximum Approval Authority
410	Grade Stabilization Structure	Drainage area	square miles	0.5	1	2	4	20	40	Class III
		Effective height	feet	10	15	20	25	35	50	Class III
		Conduit diameter	inches	12	24	36	42	48	60	Class III
		Storage x height	acre feet x feet	500	1,000	2,000	3,000	All	All	Class III
		Embankment over active fault		None	None	None	None	None	None	Class I
430	Irrigation Pipeline	Pipeline capacity < 50 psi maximum pressure	gallons per minute	200	500	1,000	2,000	5,000	All	Class III
		Pipeline capacity ≥ 50 psi operating pressure	gallons per minute	200	500	1,000	2,000	3,500	All	Class III
436	Irrigation Reservoir	Drainage area	square miles	0.5	1	2	4	20	40	Class III
		Effective height	feet	10	15	20	25	35	50	Class III
		Conduit diameter	inches	12	24	36	42	48	60	Class III
		Storage x height	acre feet x feet	500	1,000	2,000	3,000	All	All	Class III
		Embankment over active fault		None	None	None	None	None	None	Class I
516	Livestock Pipeline	Pressure	pounds per square inch	50	100	150	200	300	All	Class III
		Pipe Diameter	inches	1 1/4	2	4	6	All	All	Class III
533	Pumping Plant	Axial flow pump capacity	gallons per minute	1,000	5,000	10,000	20,000	50,000	100,000	Class II
		Centrifugal & turbine pump capacity	gallons per minute	250	500	1,000	2,000	3,500	5,000	Class III
		Centrifugal pump static head	feet	50	100	150	200	350	500	Class IV
		Turbine pump static head	feet	100	200	300	400	500	1,000	Class III
560	Access Road	Surface treatment	kind	Soil	Soil and Gravel	Soil, Gravel, and Asphalt	Soil, Gravel, Asphalt, and Concrete	All	All	Class II
		Length	miles	0.5	1	2	4	All	All	Class II
		Maximum grade	percent	8	10	15	20	All	All	Class II
		Culvert pipe diameter	inches	12	24	48	60	All	All	Class II
587	Structure for Water Control	Drainage area	square miles	1	2	5	10	20	40	Class III
		Effective height	feet	10	15	20	25	35	50	Class II
		Embankment over active fault		None	None	None	None	None	None	Class I
608	Surface Drain, Main or Lateral	Design capacity	cubic feet per second	50	100	200	500	1,000	2,000	Class II
		Design velocity	feet per second	3	4	6	8	10	12	Class II