Conservation Practice Job Approval Authority - ENGINEERING FOR

Name	*Title*	*Office*
COPY A BLANK	Title	Office

ENGINEERING Practices [10]

* indicates none/not assigned

Practice Code	*Practice Name*	*Controlling Factor*	*Units*	*Class I*	*Class II*	*Class III*	*Class IV*	*Class V*	*Job Approval Dsn/Const **	*Foot note #*
560	Access Road	Bridge Span (Std Design Only)	Feet	None	None	None	None	24	*** / ***	
		Culvert pipe; Inside Diameter	Inches	18	24	36	48	72	*** / ***	
		Length	Feet	2,000	5,000	10,000	20,000	All	*** / ***	
		Surface Treatment	--	Soil	Gravel	Gravel	Paved	Other	*** / ***	
		Maximum Grade	Percent	8	10	12	15	All	*** / ***	
309	Agrichemical Handling Facility	Truss Span	Feet	24	32	42	52	All	*** / ***	8
		Tank Storage Volume	Gallons	250	500	1000	2500	5000	*** / ***	
		Post Height	Feet	12	12	14	16	20	*** / ***	4, 8
591	Amendments for the Treatment of Agricultural Waste								**N/A**	1
366	Anaerobic Digester								**N/A**	1
316	Animal Mortality Facility	Wall Height	Feet	3	4	5	6	8	*** / ***	8
		Size of Animal Operation	AU	100	250	500	1000	All	*** / ***	5
		Rotary Drum	--	None	None	None	None	All	*** / ***	8
		Forced Aeration	--	None	None	None	None	All	*** / ***	8
		Capacity	Lb/day	400	600	800	1000	All	*** / ***	
397	Aquaculture Ponds	Drainage Area	Acres	100	400	1000	2500	4000	*** / ***	3
		Conduit	Inches	12	24	36	42	48	*** / ***	
396	Aquatic Organism Passage	--	--	None	None	None	None	All	*** / ***	
310	Bedding	Area	Acres	5	10	40	160	All	*** / ***	
672	Building Envelope Improvement	--	--	None	None	None	None	All	*** / ***	
584	Channel Bed Stabilization	Velocity (subcritical flow)	FPS	2	4	6	8	10	*** / ***	
		Capacity	CFS	50	150	300	400	500	*** / ***	
		Drainage Area	Acres	10	50	100	200	300	*** / ***	
326	Clearing and Snagging	Length of Reach	Feet	500	1,000	5,000	15,000	All	*** / ***	
317	Composting Facility	Wall Height	Feet	3	4	5	6	8	*** / ***	8
656	Constructed Wetland	Size of Wetland	Acres	0.2	0.3	0.6	1.0	All	*** / ***	
402	Dam	Drainage Area	Sq.mi.	None	None	None	None	20	*** / ***	3
348	Dam, Diversion	Height of Drop	Feet	2	3	5	7	8	*** / ***	
		Stream Flow (25yr)	CFS	100	500	1000	1500	2000	*** / ***	
		Flow Diverted	CFS	25	50	100	150	200	*** / ***	
356	Dike	Hazard Class	--	III	III	III	III	III	*** / ***	
		Water Height	Feet	2	3	6	8	12	*** / ***	
362	Diversion	Drainage Area	Acres	5	10	50	100	All	*** / ***	
554	Drainage Water Management	Area	Acres	5	30	100	300	All	*** / ***	
432	Dry Hydrant	Pumping Head	Feet	5	8	12	15	18	*** / ***	
368	Emergency Livestock Mortality Management								**N/A**	1
374	Farmstead Energy Improvement	--	--	None	None	None	None	All	*** / ***	
398	Fish Raceway or Tank	Construction Material	--	Earth	Wood	Masonry	Concrete	All	*** / ***	
		Wall Height	Feet	4	5	6	6	8	*** / ***	
410	Grade Stabilization Structure	Drainage Area	Acres	100	400	1000	2500	4000	*** / ***	3
		Weir Structure-Discharge	CFS	50	150	250	350	500	*** / ***	
		Conduit	Inches	12	24	36	42	48	*** / ***	
412	Grassed Waterway	Capacity	CFS	25	50	150	300	All	*** / ***	
		Drainage Area	Acres	5	10	50	100	All	*** / ***	
355	Groundwater Testing	--	--	None	None	None	None	All	*** / ***	
561	Heavy Use Area Protection	Surface Treatment	--	Vegetation	Mulch	Gravel	Paved	Other	*** / ***	
		Area Treated	SqFt.	2,000	5,000	10,000	25,000	All	*** / ***	
423	Hillside Ditch	Length	Feet	None	100	250	400	All	*** / ***	
		Average Land Slope	Percent	None	12	25	40	All	*** / ***	
320	Irrigation Canal or Lateral	Capacity	CFS	50	150	300	400	500	*** / ***	
428	Irrigation Ditch Lining	Capacity	CFS	50	100	200	300	All	*** / ***	

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388	Irrigation Field Ditch	Capacity	CFS	1	5	10	25	All	*** / ***	
464	Irrigation Land Leveling	Area	Acres	5	10	50	150	All	*** / ***	
430	Irrigation Pipeline	Capacity	GPM	100	250	500	1000	3500	*** / ***	
436	Irrigation Reservoir	Embankment-Drainage Area	Acres	100	400	1000	2500	4000	*** / ***	3
		Embankment-Conduit	Inches	12	24	36	42	48	*** / ***	
		Pit-Volume	Ac-ft	2	10	20	50	All	*** / ***	
441	Irrigation System, Microirrigation	Review of third party design - Area	Acres	2	5	10	40	All	*** / ***	
		Area	Acres	2	5	10	40	All	*** / ***	
443	Irrigation System, Surface and Subsurface	Area	Acres	10	40	80	160	All	*** / ***	
447	Irrigation System, Tailwater Recovery								**N/A**	1
449	Irrigation Water Management	Area	Acres	5	10	50	200	All	*** / ***	
460	Land Clearing	Area	Acres	5	10	50	160	All	*** / ***	
453	Land Reclamation, Landslide Treatment								**N/A**	1
466	Land Smoothing	Area	Acres	5	10	50	200	All	*** / ***	
		Average Slope	Percent	1	2	3	All	All	*** / ***	
670	Lighting System Improvement	--	--	None	None	None	None	All	*** / ***	
468	Lined Waterway or Outlet	Capacity	CFS	25	50	150	300	All	*** / ***	
516	Livestock Pipeline	Pressure	PSI	50	100	200	250	300	*** / ***	
		Length	Feet	500	1,000	3,000	10,000	All	*** / ***	
		Inside Diameter	Inches	1	2	3	6	8	*** / ***	
482	Mole Drain	Length	Feet	5,000	10,000	25,000	50,000	All	*** / ***	
500	Obstruction Removal	Area	Acres	5	10	50	200	All	*** / ***	6
319	On-Farm Secondary Containment Facility								**N/A**	1
582	Open Channel	Velocity	FPS	2	4	6	8	10	*** / ***	
		Capacity	CFS	50	150	300	400	1000	*** / ***	
378	Pond	Drainage Area	Acres	100	400	1000	2500	4000	*** / ***	3
		Conduit	Inches	12	24	36	42	48	*** / ***	
521C	Pond Sealing or Lining, Bentonite Sealant	Area	Acres	None	1	5	10	All	*** / ***	
521D	Pond Sealing or Lining, Compacted Clay Treatment	Area	Acres	None	1	5	10	All	*** / ***	
521A	Pond Sealing or Lining, Flexible Membrane	Area	Acres	None	1	5	10	All	*** / ***	
521B	Pond Sealing or Lining, Soil Dispersant	Area	Acres	None	1	5	10	All	*** / ***	
462	Precision Land Forming	Area	Acres	5	10	50	200	All	*** / ***	
533	Pumping Plant	Livestock Watering-Capacity	GPM	10	20	30	50	100	*** / ***	7
		Waste Transfer Pump-Capacity	GPM	10	20	300	500	1000	*** / ***	7
		Irrigation Pump-Capacity	GPM	10	20	300	500	1000	*** / ***	7
562	Recreation Area Improvement	--	--	None	None	None	None	All	*** / ***	
566	Recreation Land Grading and Shaping	Area Graded	Acres	4	8	10	25	All	*** / ***	
		Soil Moved	Cy/Ac.	300	800	1000	2500	All	*** / ***	
555	Rock Barrier	Length	Feet	125	250	500	1000	All	*** / ***	
558	Roof Runoff Structure	Gravel Drip Line	LnFt.	1000	2000	All	All	All	*** / ***	
		Area of Roof	SqFt.	1,000	2,000	10,000	20,000	All	*** / ***	
367	Roofs and Covers	Truss/Rafter Span	Feet	24	32	42	52	All	*** / ***	
		Post Height	Feet	8	12	14	16	20	*** / ***	4
		Membrane-Surface Area	1000SF	20	44	100	150	All	*** / ***	
557	Row Arrangement	Area of Field	Acres	5	10	50	200	All	*** / ***	
350	Sediment Basin	Drainage Area	Acres	100	400	1000	2500	4000	*** / ***	3
		Conduit	Inches	12	24	36	42	48	*** / ***	
572	Spoil Spreading	Length	Feet	1,000	2,500	5,000	10,000	All	*** / ***	
574	Spring Development	Source of Flow	--	Seep	Fracture	Intercept	Stream	All	*** / ***	
		Spring Flow	GPM	5	10	15	20	All	*** / ***	
442	Sprinkler System	Review of third party design	Acres	5	40	80	160	All	*** / ***	
		Area	Acres	5	40	80	160	All	*** / ***	
570	Stormwater Runoff Control	Area	Acres	1	5	10	25	100	*** / ***	
578	Stream Crossing	Drainage Area	Acres	250	500	1000	2500	All	*** / ***	
		Height of Bank	Feet	4	6	8	10	All	*** / ***	
		Culvert Pipe; Inside Diameter	Inches	18	24	36	48	72	*** / ***	

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580	Streambank and Shoreline Protection	Streambank Mechanical-Bankfull Velocity	FPS	2	4	6	8	10	*** / ***	
		Streambank Mechanical-Bankfull Capacity	CFS	50	150	300	400	1000	*** / ***	
		Shorelines-Height above mean high water	Feet	None	None	None	None	3	*** / ***	
		Streambank Vegetative-Drainage Area	SqMile	2	5	10	50	100	*** / ***	
		Streambank Mechanical-Drainage Area	SqMile	2	5	10	50	100	*** / ***	
		Streambank Mechanical-Channel Depth at Low Bank	Feet	2	4	6	8	10	*** / ***	
587	Structure for Water Control	Flow Meter-	--	None	None	None	None	All	*** / ***	
		Drainage Area	Acres	100	400	1000	2500	4000	*** / ***	3
		Conduit	Inches	12	24	36	42	48	*** / ***	
		Weir Structure-Discharge	CFS	50	150	250	350	500	*** / ***	
		Flashboard Riser-Discharge	CFS	10	20	40	80	200	*** / ***	
606	Subsurface Drain	Length	Feet	2,500	5,000	10,000	15,000	All	*** / ***	
		Diameter	Inches	4	6	8	12	All	*** / ***	
607	Surface Drainage, Field Ditch	Drainage Area	Acres	5	10	50	200	All	*** / ***	
608	Surface Drainage, Main or Lateral	Velocity	FPS	2	4	6	8	10	*** / ***	
		Capacity	CFS	25	40	150	300	1000	*** / ***	
600	Terrace	Area of Field	Acres	10	20	50	200	All	*** / ***	
575	Trails and Walkways	Maximum Grade	Percent	8	10	15	20	All	*** / ***	
620	Underground Outlet	Pipe Diameter	Inches	8	12	24	30	All	*** / ***	
360	Waste Facility Closure	Effective Height	Feet	15	20	25	30	35	*** / ***	3
632	Waste Separation Facility	Mechanical-Organic Separation	--	None	None	None	None	All	*** / ***	
		Chemical-Separation	--	None	None	None	None	All	*** / ***	
		Mechanical-Sand Separation	--	None	None	None	None	All	*** / ***	
		Passive-Organic Separation	--	None	None	None	None	All	*** / ***	
		Passive-Sand Separation	--	None	None	None	None	All	*** / ***	
313	Waste Storage Facility	Storage Capacity	1000Cu Ft	10	100	500	1000	2000	*** / ***	
		Structure-Wall Height	Feet	3	4	5	6	8	*** / ***	8
		Size of Animal Operation	AU	100	250	500	1000	All	*** / ***	5
		Pond-Total Depth	Feet	None	5	10	15	35	*** / ***	3
634	Waste Transfer	Size of Animal Operation	AU	100	250	500	1,000	All	*** / ***	5, 9
629	Waste Treatment								**N/A**	1
359	Waste Treatment Lagoon	Anaerobic-Treatment Volume	1000Cu Ft	100	250	500	1000	2000	*** / ***	3
		Aerobic-Surface Area	Acres	None	None	None	15	25	*** / ***	3
638	Water and Sediment Control Basin	Drainage Area	Acres	5	10	50	200	All	*** / ***	
642	Water Well	Drilled, Diameter	Inches	6, Livestock	6	8	12	All	*** / ***	
614	Watering Facility	Capacity	Gallons	300	500	1000	2000	All	*** / ***	
351	Well Decommissioning	Plugging Material		Concrete	Bentonite	Clay	Other	All	*** / ***	
		Diameter - Hand Dug	Inches	None	18	24	30	All	*** / ***	
		Diameter - Drilled	Inches	None	6	8	12	All	*** / ***	
658	Wetland Creation	Area Created	Acres	5	10	50	200	All	*** / ***	
659	Wetland Enhancement	Area Enhanced	Acres	5	10	50	200	All	*** / ***	
657	Wetland Restoration	Area Restored	Acres	5	10	50	200	All	*** / ***	

Footnotes:

1 No job approval criteria currently established, therefore, the Job Class is above a Class V and cannot be delegated to field employees. Review and approval must be performed by the SCE.

2 Approval Authority does not apply to any engineering practice that has a hazard potential, as defined in NEM 501.7C, of significant or high, where failure may result in loss of life, impairment of water quality, environmental damage impacting wildlife or human health, or presents an unacceptable economic risk. Approval Authority does not apply to any engineering practice that alters the visual resources of beaches and shorelines of oceans or the Great Lakes.

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3 Approval Authority does not apply to ponds or structures with a drainage area over 20 sq. mi., effective height over 35 feet, with significant or high hazard classification, or where the embankment is located over an active fault. Hazard Class and Effective Height are defined in NEM 520.21D&E. For requirements regarding permitting for existing and proposed dams, refer to NCDEQ, Division of Energy, Mineral, and Land Resources, via the following link; http://prtal.ncdnr.org/web/lr/dams. Also refer to the NC General Statutes, Chapter 143, Part 3, Dam Safety Law, for additional requirements.

4 Post height is measured from the floor level to the bottom of the truss or rafter.

5 AU - Animal Unit, 1 animal unit = 1000 lb. of animal weight.

6 Approval Authority does not apply to hazardous materials.

7 Approval Authority does not apply to pumps with a capacity over 3500 cfs or static head over 350 feet.

8 Approval Authority is also dependent on Practice Code 367 - Roofs and Covers.

9 Approval Authority is also dependent on any other referenced practice such as 313, 430, 468, 533, 632, and 633.

10 It is intended that all employees shall gather data and prepare plans or designs outside their job approval authority to acquire experience. Review and approval of all such plans by a person with approriate job approval authority is required.