

Florida Department of Environmental **Protection**

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

DEP Form No: 62-528.900(1) Form Title: Application to Construct/ Operate/Abandon Class I, III, or V Injection Well Systems Effective Date: DEP Application No,: (Filled in by DEP)

APPLICATION TO CONSTRUCT/OPERATE/ABANDON CLASS I, III, OR V INJECTION WELL SYSTEMS

Part I. Directions

- A. All applicable items must be completed in full in order to avoid delay in processing this application. Where attached sheets or other technical documentation are utilized in lieu of the blank space provided, indicate appropriate cross-reference in the space and provide copies to the Department in accordance with C. below. Where certain items do not appear applicable to the project, indicate N/A in the appropriate spaces.
- B. All information is to be typed or printed in ink.
- C. Two (2) copies of this application and two (2) copies of supporting information such as plans, reports, drawings and other documents shall be submitted to the appropriate Department office if submitted as a paper document, or one (1) copy of the application and one (1) copy of the plans, reports, drawings and other documents if the submittal is in an electronic format. An engineering report is also required to be submitted to support this application pursuant to the applicable sections of Rule 62-528, F.A.C. The attached list* shall be used to determine completeness of supporting data submitted or previously received. A check for the application fee in accordance with Rule 62-4.050, F.A.C., made payable to the Department shall accompany the application.
- D. For projects involving construction, this application is to be accompanied by two (2) sets or one (1) set, in accordance with C. above, of engineering drawings, specifications and design data as prepared by a Professional Engineer registered in Florida, where required by Chapter 471, Florida Statutes.
- E. Attach 8 1/2" x 11" site location map indicating township, range and section and latitude/longitude for the project.

PART II. General Information

Α.	Applicant Name		Title			
	Address					
	City	State		Zip		
	Telephone Number	Email				
В.	Project Status: 🔲 New 🔲 Exis	sting				
	■ Modification (specify)					
_	neering and Hydrogeologic Data Requi			ion to		

*"Engineerin	ng and	Hydro	geologic	Data	Red	quire	d f	or	Support	of	Application	to
Construct,	Operat	e and	Abandon	Class	I,	III,	or	V	Injection	₩e	ells"	

C. Well Type: 🔲 Exploratory Well 🔲 Test/Inje	jection	Well
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D.	Type of Permit Application	DEP Application No,: WACS#(Filled in by DEP)						
	Class I Test/Injection Well Construction and Testi	ng Permit						
	Class I Well Operation Permit							
☐ Class I Well Operation Repermitting								
Class I Well Plugging and Abandonment Permit								
	☐ Class III Well Construction/Operation/Plugging and Permit	Abandonment						
Class V Exploratory Well Construction and testing Permit								
	Class V Well Construction Permit							
Class V Well Operation Permit								
	Class V Well Plugging and Abandonment Permit							
	☐ Monitor Well Only							
Ε.	Facility Identification:							
	Name							
	Facility Location: Street							
	CityCounty							
	SIC Code(s)							
F.	Proposed facility located on Indian Lands: Yes	■ No ■						
G.	Well Identification:							
	Well No of Wells *M	ultiple wells may be noted						
	Purpose (Proposed Use)							
	Well Location: Latitude: ° ' Lo (attach separate sheet(s), if necessary,							
par	rt B. General Project Description:							
н.	General Project Description: Describe the nature, ext	ent and schedule of						

Sub

the injection well project. Refer to existing and/or future pollution control facilities, expected improvement in performance of the facilities and state whether the project will result in full compliance with the requirements of Chapter 403, F.S., and all rules of the Department. Attach additional sheet(s) if necessary or cross-reference the engineering report.

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PART III. Statement by Applicant and Engineer

Α.	aaA	1 i	ca	nt
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	I, the owner/authorized representat	ive* of						
	certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I understand that this certification also applies to all subsequent reports submitted pursuant to this permit. Where construction is involved, I agree to retain the design engineer, or other professional engineer registered in Florida, to provide inspection of construction in accordance with Rule 62-528.455(1)(c), F.A.C.							
	Signed		Date					
	Name and Title (Please Type)		Telephone Number					
	*Attach a Letter of Authorization.							
В.	Professional Engineer Registered in Florid	a						
	This is to certify that the engineer well have been designed/examined by me and modern engineering principles applicable characterized in the permit application. in my professional judgement, that the well operated, will discharge the effluent in statutes of the State of Florida and the ralso agreed that the undersigned will furnistructions for proper maintenance and on they have been furnished.	found to be in conf to the disposal of There is reasonable L, when properly mai compliance with all ules of the Departm ernish the applican	formity with pollutants assurance, ntained and applicable ent. It is t a set of					
		Signed						
		Name (Please Type)					
	(Please Affix Seal)	Company Name (Ple	ase Type)					
	Mailing Address(Please Type)							
	Florida Registration No.	DatePl	none No.					
	Email of P.E.:							

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ENGINEERING AND HYDROLOGIC DATA REQUIRED FOR SUPPORT OF APPLICATION TO CONSTRUCT, OPERATE, AND ABANDON CLASS I, III, OR V INJECTION WELL SYSTEMS

The following information shall be provided for each type of permit application.

A. CLASS I TEST/INJECTION WELL CONSTRUCTION AND TESTING PERMIT

- 1. A map showing the location of the proposed injection wells of well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.
- 2. A tabulation of data on all wells within the area of review which penetrate into the proposed injection zone, confining zone, or proposed monitoring zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Department may require.
- 3. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the proposed injection.
- 4. Maps and cross sections detailing the hydrology and geologic structures of the local area.
- 5. Generalized maps and cross sections illustrating the regional geologic setting.
- 6. Proposed operating data.
 - (a) Average and maximum daily rate and volume of the fluid to be injected;
 - (b) Average and maximum injection pressure; and,
 - (c) Source and an analysis of the chemical, physical, radiological and biological characteristics of injection fluids.
- 7. Proposed formation testing program to obtain an analysis of the chemical, physical and radiological characteristics of and other information on the injection zone.
- 8. Proposed stimulation program.
- 9. Proposed injection procedure.
- 10. Engineering drawings of the surface and subsurface construction details of the system.

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11. Contingency plans to cope with all shut-ins or well failures, so as to protect the quality of the waters of the State as defined in Rule 62-3 and 62-520, F.A.C., including alternate or emergency discharge provisions.

- 12. Plans (including maps) and proposed monitoring data to be reported for meeting the monitoring requirements in Rule 62-528.425, F.A.C.
- 13. For wells within the area of review which penetrate the injection zone but are not properly completed or plugged, the corrective action proposed to be taken under Rule 62-528.300(5), F.A.C.
- 14. Construction procedures including a cementing and casing program, logging procedures, deviation checks, proposed methods for isolating drilling fluids from surficial aquifers, proposed blowout protection (if necessary), and a drilling, testing and coring program.
- 15. A certification that the applicant has ensured, through a performance bond or other appropriate means, the resources necessary to close, plug or abandon the well as required by Rule 62-528.435(9), F.A.C.

B. CLASS I INJECTION WELL OPERATION PERMIT

- 1. A report shall be submitted with each application for a Class I Well operating permit, which shall include, but not be limited to, the following information:
 - (a) Results of the information obtained under the construction permit described in A. CLASS I TEST/INJECTION WELL CONSTRUCTION AND TESTING PERMIT, including:
 - (1) All available logging and testing program data and construction data on the well or well field;
 - (2) A satisfactory demonstration of mechanical integrity for all new wells pursuant to Rule 62-528.300(6), F.A.C;
 - (3) The actual operating data, including injection pressures versus pumping rates where feasible, or the anticipated maximum pressure and flow rate at which the permittee will operate, if approved by the Department;
 - (4) The actual injection procedure;
 - (5) The compatibility of injected waste with fluids in the injection zone and minerals in both the injection zone and the confining zone; and,
 - (6) The status of corrective action on defective wells in the area of review.
 - (b) Record drawings, based upon inspections by the engineer or persons under his direct supervision, with all deviations noted;
 - (c) Certification of completion submitted by the engineer of record;
 - (d) If requested by the Department, operation manual including emergency procedures;
 - (e) Proposed monitoring program and data to be submitted;

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(f) Proof that the existence of the well has been recorded on the surveyor's plan at the county courthouse; and,

(g) Proposed plugging and abandonment plan pursuant to Rule 62-528.435(2), F.A.C.

C. CLASS I WELL OPERATION REPERMITTING

- 1. An updated map showing the location of the injection wells or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of pubic record and pertinent information known to the applicant is required to be included on this map.
- 2. A tabulation of data on all wells within the area of review which penetrate into the injection zone, confining zone, or monitoring zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Department may require.
- 3. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the injection.
- 4. Maps and cross sections detailing the hydrology and geologic structures of the local area.
- 5. Generalized maps and cross sections illustrating the regional geologic setting.
- 6. Contingency plans to cope with all shut-ins or well failures, so as to protect the quality of the waters of the State as defined in Rule 62-3 and 62-520, F.A.C., including alternate or emergency discharge provisions.
- 7. For wells within the area of review which penetrate the injection zone but are not properly completed or plugged, the corrective action proposed to be taken under Rule 62-528.300(5), F.A.C.
- 8. A certification that the applicant has ensured, through a performance bond or other appropriate means, the resources necessary to close, plug or abandon the well as required by Rule 62-528.435(9), F.A.C.
- 9. A report shall be submitted with each application for repermitting of Class I Well operation which shall include the following information:
 - (a) All available logging and testing program data and construction data on the well or well field;

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- (b) A satisfactory demonstration of mechanical integrity for all wells pursuant to Rule 62-528.300(6), F.A.C.;
- (c) The actual operating data, including injection pressures versus pumping rates where feasible, or the anticipated maximum pressure and flow rate at which the permittee will operate, if approved by the Department;
- (d) The actual injection procedure;
- (e) The compatibility of injected waste with fluids in the injection zone and minerals in both the injection zone and the confining zone;
- (f) The status of corrective actin on defective wells in the area of review;
- (g) Record drawings, based upon inspections by the engineer or persons under his direct supervision, with all deviations noted;
- (h) Certification of completion submitted by the engineer of record;
- (i) An updated operation manual including emergency procedures;
- (j) Proposed revisions to the monitoring program or data to be submitted; and,
- (k) Proposed plugging and abandonment plan pursuant to Rule 62-528.435(2), F.A.C.

D. CLASS I WELL PLUGGING AND ABANDONMENT PERMIT

- 1. The reasons for abandonment.
- 2. A proposed plan for plugging and abandonment describing the preferred and alternate methods, and justification for use.
 - (a) The type and number of plugs to be used;
 - (b) The placement of each plug including the elevation of the top and bottom;
 - (c) The type and grade and quantity of cement or any other approved plugging material to be used; and,
 - (d) The method for placement of the plugs.
- 3. The procedure to be used to meet the requirements of Rule 62-528.435, F.A.C.

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E. CLASS III WELLS CONSTRUCTION/OPERATION/PLUGGING AND ABANDONMENT PERMIT

Construction Phase

- 1. A map showing the location of the proposed injection wells or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water system, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.
- 2. A tabulation of data on all wells within the area of review which penetrate into the proposed injection zone, confining zone, or proposed monitoring zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Department may require.
- 3. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the proposed injection.
- 4. Maps and cross sections detailing the hydrology and geologic structures of the local area.
- 5. Generalized maps and cross sections illustrating the regional geologic setting.
- 6. Proposed operating data:
 - (a) Average and maximum daily rate and volume of the fluid to be injected;
 - (b) Average and maximum injection pressure; and,
 - (c) Source and an analysis of the chemical, physical, radiological and biological characteristics of injection fluids, including any additives.
- 7. Proposed formation testing program to obtain an analysis of the chemical, physical and radiological characteristics of and other information on the injection zone.
- 8. Proposed stimulation program.
- 9. Proposed injection procedure.
- 10. Engineering drawings of the surface and subsurface construction details of the system.

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- 11. Contingency plans to cope with all shut-ins or well failures or catastrophic collapse, so as to protect the quality of the waters of the State as defined in Rule 62-3 and 62-520, F.A.C., including alternate or emergency discharge provisions.
- 12. Plans (including maps) and proposed monitoring data to be reported for meeting the monitoring requirements in Rule 62-528.425, F.A.C.
- 13. For wells within the area of review which penetrate the injection zone but are not properly completed or plugged, the corrective action proposed to be taken under Rule 62-528.300(5), F.A.C.
- 14. Construction procedures including a cementing and casing program, logging procedures, deviation checks, proposed methods for isolating drilling fluids from surficial aquifers, and a drilling, testing and coring program.
- 15. A certificate that the applicant has ensured, through a performance bond or other appropriate means, the resources necessary to close, plug or abandon the well as required by Rule 62-528.435(9), F.A.C.
- 16. Expected changes in pressure, native fluid displacement, direction of movement of injection fluid.
- 17. A proposed monitoring plan, which includes a plan for detecting migration of fluids into underground sources of drinking water, a plan to detect water quality violation in the monitoring wells, and the proposed monitoring data to be submitted.

Operation Phase

- 1. The following information shall be provided to the Department prior to granting approval for the operation of the well or well field:
 - (a) All available logging and testing program data and construction data on the well or well field;
 - (b) A satisfactory demonstration of mechanical integrity for all new wells pursuant to Rule 62-528.300(6), F.A.C.;
 - (c) The actual operating data, including injection pressure versus pumping rate where feasible, or the anticipated maximum pressure and flow rate at which the permittee will operate, if approved by the Department;
 - (d) The results of the formation testing program;
 - (e) The actual injection procedure; and,
 - (f) The status of corrective action on defective wells in the area of review.

Plugging and abandonment Phase

1. The justification for abandonment.

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- 2. A proposed plan for plugging and abandonment describing the preferred and alternate methods.
 - (a) The type and number of plugs to be used;
 - (b) The placement of each plug including the elevation of the top and bottom;
 - (c) The type and grade and quantity of cement or any other approved plugging material to be used; and,
 - (d) The method for placement of the plugs.
- 3. The procedure to be used to meet the requirements of Rule 62-528.435, F.A.C.

F. EXPLORATORY WELL CONSTRUCTION AND TESTING PERMIT

- 1. Conceptual plan of the injection project. Include number of injection wells, proposed injection zone, nature and volume of injection fluid, and proposed monitoring program.
- 2. Preliminary Area of Review Study. Include the proposed radius of the area of review with justification for that radius. Provide a map showing the location of the proposed injection well or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.
- 3. Proposed other uses of the exploratory well.
- 4. Drilling and testing plan for the exploratory well. The drilling plan must specify the proposed drilling program, sampling, coring, and testing procedures.
- 5. Abandonment Plan.

G. CLASS V WELL CONSTRUCTION PERMIT

(This form should be used for Class V Wells instead of Form 62-528.900(3), F.A.C., when there is a need for a Technical Advisory Committee and an engineering report.)

1.	Type and	number of proposed Class V Wells:
		Wells Receiving Domestic Waste
		Desalination Process Concentrate Wells (Reverse Osmosis, etc.)
		Aquifer Storage and Recovery Wells
		Aquifer Remediation Wells
		Salt-water Intrusion Barrier Wells
		Cooling Water Return Flow Wells Open-looped System
		Subsidence Control Wells
		Aquifer Recharge Wells
		Experimental Technology Wells
		Wells used to inject spent brine after halogen recovery
		Radioactive Waste Disposal Wells*
		Borehole Slurry Mining Wells
		Other non-hazardous Industrial or Commercial Disposal Wells
		(explain)
		Other (explain)

- *Provided the concentrations of the waste do not exceed drinking water standards contained in Chapter 62-550, F.A.C.
- 2. Project Description:
 - (a) Description and use of proposed injection system;
 - (b) Nature and volume of injected fluid (the Department may require an analysis including bacteriological analysis) in accordance with Rule 62-528.635(2)(b), F.A.C.; and,
 - (c) Proposed pretreatment.
- 3. Water well contractor's name, title, state license number, address, phone number and signature.

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4.	Well Design	n and Constru	ction Detail	s.	(For mult	i-casing	confi	gurations
	or unusual	construction	provisions,	an	elevation	drawing	of the	proposed
	well should	d be attached	.)					

- (a) Proposed total depth;
- (b) Proposed depth and type of casing(s);
- (c) Diameter of well;
- (d) Cement type, depth, thickness; and,

psi	gpm @	Injection pumps (if applicable):	(e)
		Controls:	

- 5. Water Supply Wells When required by Rule 62-528.635(1), F.A.C., attach a map section showing the locations of all water supply wells within a one-half (1/2) mile radius of the proposed well. The well depths and casing depths should be included. When required by Rule 62-528.635(2), F.A.C., results of bacteriological examinations of water from all water supply wells within one-half (1/2) mile and drilled to approximate depth of proposed well should be attached.
- 6. Area of review (When required by Rule 62-528.300(4), F.A.C.)

Include the proposed radius of the area of review with justification for that radius. Provide a map showing the location of the proposed injection well or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

H. CLASS V WELL OPERATION PERMIT

(Fina be s

al report of the construction that includes the following information may ubmitted with the application to operate.)	
1. Permit Number of Class V Construction Permit:	
2. Owner's Name:	_
2 Marso of Woller	
3. Type of Wells:	

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4.	. Construction and Testing Summary:								
	(a) Actual Dimensions:								
Diameter		meter	(inches)	Well Depth	(feet)	_ Casing Depth	(feet)		
	(b)	Result of	Initial Testi	ng					
5.	. Proposed Operating Data:								
	(a)	Injection	Rate (GPM);						
	(b)	Descripti	on of injected	waste; and,					
	(C)	Injection	pressure and p	pump controls.					
6.	. Proposed Monitoring Plan (if any):								
	(a)	Number o	of monitoring w	gells;					
	(b)	Depth(s)	;						
	(C)	Paramete	ers;						
	(d)	Frequenc	cy of sampling;	and,					
	(e)	Instrume	ntation (if app	plicable) Flow					
				Pressure					

I. CLASS V WELLS PLUGGING AND ABANDONMENT PERMIT

- 1. Permit number of Class ${\tt V}$ construction or operating permit.
- 2. Type of well.
- 3. Proposed plugging procedures, plans and specifications.
- 4. Reasons for abandonment.

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J. MONITOR WELL PERMIT

This section should be used only when application is made for a monitor well only. If a monitor well is to be constructed under a Class I, III, or V injection well permit, it is not necessary to fill in this section.

- 1. A site map showing the location of the proposed monitor wells for which a permit is sought. The map must be to scale and show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, water wells and other pertinent surface features including structures and roads.
- 2. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the proposed injection.
- 3. Maps and cross sections detailing the hydrology and geologic structures of the local area.
- 4. Generalized maps and cross sections illustrating the regional geologic setting.
- 5. Proposed formation testing program to obtain an anlysis of the chemical, physical and radiological characteristics of and other information on the monitor zone(s).
- 6. Proposed monitoring procedure.
- 7. Engineering drawings of the surface and subsurface construction details of the monitoring system.
- 8. Proposed monitoring data to be reported for meeting the monitoring requirements in Rule 62-528.425, F.A.C.
- 9. Construction procedures including a cementing and casing program, logging procedures, deviation checks, proposed methods for isolating drilling fluids from surficial aquifers, proposed blowout protection (if necessary), and a drilling, testing and coring program

O. Monitor Well Information:						
☐ On-site ☐ Multizone ☐ Single-zone						
☐ Regional ☐ Other (specify)						
Proposed Monitoring Interval(s)						
Distance and Direction From Associated Injection Well						