

6 INJECTION WELL OPERATIONS PLAN

40 CFR 146.82(a) (7), 40 CFR 146.88

TULARE COUNTY CARBON STORAGE PROJECT (TCCSP)

Facility Information

Facility (site) Name: Tulare County Carbon Storage Project (TCCSP)

Facility Operator: TCCSP, LLC.

Facility Contact:



Project Location:



Injection Well Name and Coordinates:

Well Name	Latitude	Longitude
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

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List of Acronyms/Abbreviations

2D	2-Dimensional
3D	3-Dimensional
AoR	Area of Review
bbl/d	Barrels per day
BHP	Bottom Hole Pressure
CCS	Carbon capture, and storage
CO ₂	Carbon dioxide
CMG	Computer Modelling Group

D_H	Hydraulic Diameter
DRM	Dynamic Reservoir Model
EoS	Equation of State
EPA	Environmental Protection Agency
f_D	Darcy's Friction Factor
ft	feet
g	Acceleration due to Gravity
GEM	General Equation of State
KB	Kelly Bushing
k_{r,CO_2}	CO ₂ Relative Permeability
kh	Permeability-Thickness Product
k_h	Absolute Horizontal Permeability
k_v	Absolute Vertical Permeability
$k_{r,w}$	Water Relative Permeability
mg/L	milligrams per liter
MIP	Mercury Intrusion Porosimetry
MMt	Millions of Metric tons
MMtpa	Millions of Metric tons per annum
MSL	Mean Sea Level
ΔP	Pressure Drop
ΔP_{TH}	Threshold Pressure
PISC	Post-Injection Site Care
P_{grid}	Grid Block Pressure
pH	Potential Hydrogen
ppm	Parts per Million
psi	Pounds per square inch
psia	Pounds per square inch, absolute
ρ	Fluid Density
ρ_i	Injection Zone Fluid Density
ρ_u	Underground Source for Drinking Water Fluid Density
RCA	Routine Core Analysis
R_e	Reynolds Number
SCA	Specialized Core Analysis
SEM	Static Earth Model
S_{grmax}	Maximum Residual Gas Saturation
SS	Subsea
S_{wconn}	Connate Water Saturation
S_{wirr}	Irreducible Water Saturation
TCCSP	Tulare County Carbon Storage Project
T_{grid}	Grid Block Temperature
TVD	True Vertical Depth
UIC	Underground Injection Control
USDW	Underground Source of Drinking Water
U.S. DOE	United States Department of Energy
U.S. EPA	United States Environmental Protection Agency

v	Fluid Velocity
z_i	Injection Zone Top Depth
z_u	Underground Source for Drinking Water Bottom Depth

6.1 Class VI Injection Well Operations Plan Overview

[REDACTED]

[REDACTED]

[REDACTED]

6.2 Injection Rates

[illegible]

6.3 Specifications of CO₂ Stream

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6.5 Injection Well Operational Monitoring

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

6.6 Workover and Maintenance

[REDACTED]

6.7 Reporting Requirements

[REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

[REDACTED]

6.8 **References**

- [1] Meyer, J.P. 2007. API Summary of Carbon Dioxide Enhanced Oil Recovery Injection Well Technology. Prepared for API.