ATTACHMENT I: FINANCIAL RESPONSIBILITY COST ESTIMATE AND DOCUMENTS

Facility Information

Facility name:	One Carbon Partnership, LP CCS1
Facility address:	1554 N. 600 E. Union City, IN 47390
Well location:	Section 17, Township 20 N, Range 15 E 40.1874°, -84.8646°

Pursuant to the requirements in 40 C.F.R. § 146.85, One Carbon Partnership has demonstrated adequate financial responsibility to cover all costs for corrective action, injection well plugging, post-injection site care and site closure, and emergency and remedial response associated with the requirements of this permit, as determined by third-party estimates, using financial instruments as listed in 40 C.F.R. § 146.85(a)(1). One Carbon Partnership is using an escrow account, standby trust, and third-party insurance, all of which are part of the Administrative Record for this permit. The instruments include conditions for continuation, renewal, and cancellation, reflecting the protective conditions of coverage required by 40 C.F.R. § 146.85(a)(4).

Financial Responsibility Schedule

One Carbon Partnership will fund an escrow account, and establish a standby trust, to cover the costs of: corrective action (as required by 40 C.F.R. § 146.84), injection well plugging (as required by 40 C.F.R. § 146.92), and post-injection site care and site closure (as required by 40 C.F.R. § 146.93). One Carbon Partnership will secure insurance to cover the costs of emergency and remedial response (as required by 40 C.F.R. § 146.94). The escrow account will be funded via an initial deposit and a two year pay-in period, as described below. Prior to issuance of the final Class VI UIC permit for the One Carbon Partnership well, One Carbon Partnership will ensure that at least $877,010 is in the escrow account.

The pay-in period will proceed as follows: within seven days of issuance of the final Class VI UIC permit for the One Carbon Partnership well, One Carbon Partnership will make a payment of $2,600,568 into the escrow account. Within 30 days of the first anniversary of the initial $2,600,568 payment, One Carbon Partnership will make an additional payment of $2,600,568 into the escrow account. Within 30 days of the second anniversary of the initial $2,600,568 payment, One Carbon Partnership will make a final $2,600,568 payment into the escrow account.

The total funding of the escrow account after the initial deposits and the two year pay-in period will be $8,687,704. This will cover the costs of corrective action, injection well plugging, post-injection site care and site closure. In addition, One Carbon Partnership will ensure that there is an active third-party insurance policy valued at $8,300,000 to cover the costs of emergency and remedial response prior to issuance of the final permit.

As specified under 40 C.F.R. § 146.85(b)(1), One Carbon Partnership will maintain financial responsibility until the Director approves the completed Post-Injection Site Care and Site Closure Plan and approves site closure. One Carbon Partnership must certify to the Director that all geologic sequestration activities have been completed in accordance with the Post-Injection Site Care and Site Closure Plan.

Table 1: Total Financial Responsibility Cost Estimates

Financial Responsibility Element	Cost Estimate	Method
Corrective Action	$662,126	Escrow
Total Cost	**$662,126**	
Injection Well Plugging	$214,884	Escrow
Total Cost	**$214,884**	
PISC and Site Closure		
Monitoring Wells Plugging	$304,490	Escrow
PISC Testing & Monitoring	$7,403,316	Escrow
Site Reclamation	$102,888	Escrow
Total Cost	**$7,810,694**	
Emergency and Remedial Response – Site Remediation/Restoration	$8,300,000	Insurance
Total Cost	**$8,300,000**	
Total Financial Responsibility	**$16,987,704**	

Breakdown of Cost Estimates

Table 2: Breakdown of Corrective Action Cost Estimates

Corrective Action		
Item	Vendor/Source	Cost
First re-evaluation five years after injection		
AoR Re-evaluation - Comparable project to OCP	3rd Party Estimate	$53,872
Estimated software usage for 5 simulation runs (10 hours)	3rd Party Estimate	$3,704
Subsequent years		
2036		$43,182
2041		$43,182
2046		$43,182
2051		$43,182
2056		$43,182
2061		$43,182
2066		$43,182
2071		$43,182
2076		$43,182
2081		$43,182
2086		$43,182
2091		$43,182
2096		$43,182
2101		$43,182
Total		$662,126

Table 3: Breakdown of Injection Well Plugging Cost Estimates

Injection Well Plugging		
Item	Vendor/Source	Cost
Mobilization/Demobilization	3rd Party Estimate	$5,233
Power, Fuel & Water	Estimated fuel price of $4.00/gal	$4,800
Cementing	3rd Party Estimate	$127,766
Completion Unit	3rd Party Estimate	$45,800
Supervision	3rd Party Estimate	$7,200
Rentals	3rd Party Estimate	$400
Fluid storage tank rental	3rd Party Estimate	$2,150
Trucking/delivery	Estimated $2,000	$2,000
Miscellaneous Contingency	10% of all costs	$19,535
Total		$214,884

Table 4: Breakdown of Post Injection Site Closure Period Cost Estimates

PISC Time Period Years	50	
Post-Injection Site Care		
Event	Frequency	Total Cost over PISC Duration
Shallow and deep groundwater sampling	Shallow groundwater sampling: Biannual (twice per year, Years 1-5), Annual thereafter (Q2 of each year) Deep groundwater sampling: Annual: Years 1 – 5, Every 5 years for remainder of PISC period (Q2 of each year)	$1,461,974
Pressure monitoring and associated operations and maintenance	Continuous	$2,364,278
Mechanical integrity testing (MIT)	Annual	$314,696
Pulsed neutron logging (PNL)	Year 1, Year 3, Year 6, then five year intervals to Year 50	$449,248
Microseismic monitoring	Continuous	$165,248
Time-lapse 3D surface seismic surveys	Q2 Year 1, Q2 Year 8, Q2 Year 48	$2,647,872
Total PISC Costs		**$7,403,316**

Table 5: Breakdown of Site Closure Cost Estimates

Site Closure		
Item	Vendor/Source	Cost
OBS1 Well Plugging & Abandonment - Cost Detail		
Mobilization / Demobilization	3rd Party Estimate	$5,233
Power, Fuel & Water	Estimated use of 300 gallons/day	$4,800
Cementing	3rd Party Estimate	$127,766
Completion Unit	3rd Party Estimate	$45,800
Supervision	3rd Party Estimate	$7,200
Rentals	3rd Party Estimate	$400
Fluid storage tank rentals	3rd Party Estimate	$3,100
Trucking/delivery	Estimated $2,000	$2,000
Miscellaneous Contingency	10% of all costs	$19,630
Total Cost	**$215,929**	
ACZ1 Well Plugging & Abandonment - Cost Detail		
Mobilization / Demobilization	3rd Party Estimate	$5,233
Power, Fuel & Water	Estimated use of 300 gallons/day	$3,600
Cementing	3rd Party Estimate	$21,404
Completion Unit	3rd Party Estimate	$33,150
Supervision	3rd Party Estimate	$5,400
Rentals	3rd Party Estimate	$300
Fluid storage tank rentals	3rd Party Estimate	$2,150
Trucking/delivery	Estimated $2,000	$2,000
Miscellaneous Contingency	10% of all costs	$7,324
Total Cost	$80,561	
USDW1 Well Plugging & Abandonment - Cost Detail		
USDW1 Well Plugging & Abandonment	3rd Party Estimate	$8,000
Site Reclamation - Cost Detail		
Total Well Pad Restoration	3rd Party Estimate	$102,888
Total		**$407,378**

Table 6: Breakdown of Emergency and Remedial Response Cost Estimates

Emergency and Remedial Response		
Item	Note	Cost
Planning and permitting		$800,000
Leak investigation	Use existing water wells for sampling, install up to 5 additional wells.	$1,000,000
Extraction well installation, injection well conversion	4 extraction wells (800 ft depth). Deepest USDW in AOR is 450 ft.	$600,000
Extraction pumps	4 extraction pumps and electric service. 10 GPM/ well, 40 GPM total	$400,000
Treatment	Treatment system, filters.	$250,000
Additional treatment infrastructure	Leverage existing infrastructure in place at site.	$250,000
Treatment O&M	2 years of O&M	$1,400,000
System Decommissioning		$250,000
Additional Miscellaneous Costs		$250,000
Subtotal		**$5,200,000**
Plus 60% Contingency		$3,100,000
Total		**$8,300,000**