Monetized Benefits

Monetized Accident Costs per Year and Accident

71		Total	Offsite Total	Property Damage	Sheltering in Place	Evacuations	Medical Treatment	Hospitalizations	Fatalities	Offsite	Onsite Total	Property Damage	Injuries	Fatalities	Onsite	
OFFICE C					\$100	\$200	\$1,000	\$36,000	\$8,583,113				\$50,000	\$8,583,113		Unit Value
OFFICE OF SOLID WASTE & EMERGENCY RESPONSE	7	\$2,735,130,082	\$94,430,518	\$11,352,105	\$45,166,500	\$7,717,800	\$14,807,000	\$6,804,000	\$8,583,113		\$2,640,699,564	\$2,054,895,236	\$105,150,000	\$480,654,328		10-Year Total
CYRESPONSE		\$273,513,008	\$9,443,052	\$1,135,211	\$4,516,650	\$771,780	\$1,480,700	\$680,400	\$858,311		\$264,069,956	\$205,489,524	\$10,515,000	\$48,065,433		Ave/Year
		\$1,802,986	\$62,248	\$7,483	\$29,774	\$5,088	\$9,761	\$4,485	\$5,658		\$1,740,738	\$1,354,578	\$69,314	\$316,845		Average/Accident
AL PROTECTION	AGE	NO4.	UNITED STATES													

Impacts Unquantified Accident

Lost product

Emergency response

Cleanup activities

Reduced nearby property values

Environmental impacts



Third-Party Compliance Audits

Hourly Assumptions and Unit Costs for Hiring Third Party Auditors

	Total Hours for Contracting Process	or Contractin	g Process			
Facility Type	Management	Attorneys	Engineers	Unit Labor Cost	Auditor Fee*	Total Unit Cost
Simple w/ 0-19 FTEs	32	4	0	\$2,807	\$15,000	\$17,807
Simple w/ 20-99 FTEs	44	4	18	\$4,701	\$15,000	\$19,701
Simple w/ 100+ FTEs	30	4	56	\$5,749	\$15,000	\$20,749
Complex w/ 0- 19 FTEs	32	4	0	\$3,642	\$40,000	\$43,642
Complex w/ 20- 99 FTEs	44	4	18	\$6,209	\$40,000	\$46,209
Complex w/ 100+ FTEs	30	4	56	\$7,710	\$40,000	\$47,710
Small Govt	30	0	25	\$3,630	\$15,000	\$18,630
Large Govt	60	0	39	\$8,951	\$40,000	\$48,951

FTE = Full time Employees

* Auditor fee information based on comments on the RFI



Costs

Note: Costs are based on modeling of simple and complex facilities.



Monetized Benefits

Average Impacts per Year and Accident

\$7,483	\$1,135,211	\$11,352,105	Property Damage
298	45,167	451,665	Sheltering in Place
25.44	3,859	38,589	Evacuations
9.76	1,481	14,807	Medical Treatment
0.125	19	189	Hospitalizations
0.001	0.10	1	Fatalities
			Offsite
\$1,354,578	\$205,489,524	\$2,054,895,236	Property Damage
1.386	210	2,103	Injuries
0.037	5.60	56	Fatalities
			On-site
Average/Accident	Ave/Year	10-Year Total	



Offsite Impacts by Year

	Total Reportable 473 1 189	Annual 47.3 0.1 18.9	2013 42 0 4	2012 36 0 19	2011 36 0 2	2010 36 0 42	2009 44 1 27	2008 45 0 8	2007 61 0 33	2006 53 0 7	2005 54 0 4	2004 66 0 43	Impacts	Offsite	with Deaths	Accidents of Visits	Teal Impact Number Hospital
	1	0.1	0	0	0	0	1	0	0	0	0	0	acts	ite		of	Number
8	39 14,807	1,480.7	1 51	9 14,013	2 11	2 112	7 37	3 74	3 212	7 26	32	3 239	Treatment	Medical	Other	its undergoing	People People
	38,589	3,859	838	1,008	699	3,564	3,102	2,798	15,464	1,533	3,927	5,656			Evacuated !	people	Number of
24.5	451,665 \$13	45,167 \$1	11,085 \$3	98,120 \$1	47,833 \$	4,180 \$2	8,984	4,771 \$	32,682 \$	11,792 \$	135,260 \$	96,958 \$1		in place	Sheltered L	of people P	Number \
V.3	\$11,352,105	\$1,135,211	\$3,720,150	\$1,536,600	\$235,104	\$2,475,500	\$7,750	\$318,191	\$122,980	\$833,000	\$687,996	\$1,414,834			Damage	Property	Value of



On-Site Impacts by Year

Total Reportable	Annual Average	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	Year
1,517	151.7	123	118	138	128	149	168	204	140	152	197	Impact Accidents
56	5.6	ω	1	2	9	5	6	5	3	16	6	Employee Deaths
1,955	195.5	162	159	127	130	221	194	188	193	370	211	Employee Injuries
148	14.8	ω	0	0	5	6	11	60	11	6	46	Public Responder Or Public Injuries
2	0	0	0	0	0	2	0	0	0	0	0	Public Responder Or Public Deaths
\$2,054,895,236	\$205,489,524	\$287,608,254	\$86,245,834	\$108,642,919	\$114,845,119	\$87,029,904	\$514,472,444	\$207,676,070	\$181,088,015	\$343,100,280	\$124,186,397	Value of Property Damage



Benefits

variable in their impacts addresses accidents that are both relatively rare and highly Difficult to accurately project benefits for a rule that

Reductions in:

- Number of people killed, injured, and evacuated or otherwise inconvenienced by sheltering in place
- Damage caused to property on-site and off including product, equipment, and buildings; and
- Damages to the environment and ecosystems

