# ATTACHMENT F

### Work Sheets used to Calculate Respondent Labor Costs

This attachment is available as part of the electronic docket EPA-HQ-OPP-2018-0423 and is part of the ICR's Supporting Statement.

#### **Respondent Labor Costs:**

#### Agriculture (NAICS 115000)

		Labor Category <sup>2</sup>	
		Certified	Pesticide
Item	Formula	Applicator*	Handlers &
			Applicators
Unloaded Hourly Rate <sup>1</sup>	= W	\$25.47	\$18.58
Benefits Percentage <sup>3</sup>	Lb = B/W	46.5%	46.5%
Benefits per hour	B = W*Lb	\$11.84	\$8.63
Loaded Hourly Rate	Wb = W + B =	\$37.31	\$27.21
	W(1+Lb)		

\*Scientists & Technicians labor rate used since these are more skilled workers.

- 1. Source: Bureau of Labor Statistics, NAICS 115000– Agriculture, May 2017, http://www.bls.gov/oes/current/naics
- 2. Standard Occupational Codes:
  - Management:11-0000, Management OccupationsTechnical:19-0000, Life Physical, and Social Science OccupationsAdministration42.0000, Office, Clavical and Administration Summary of Occupations
  - Administrative: 43-0000, Office, Clerical and Administrative Support Occupations
- 3. Total benefits/wages based on May 2017 Employer costs for employee compensation, All Civilian nonfarm workers, <u>ftp://ftp.bls.gov/pub/special.requests/ocwc/ect/ececqrtn.pdf</u>
- 4. U.S. Environmental Protection Agency, *EPA Air Pollution Control Cost Manual, Sixth Edition*, EPA-452-02-001, January 2002, pp. 2-34. The loading for indirect costs is within the range of 20-70% of the loaded labor rate (wage + benefits) suggested in EPA guidance.

### **Registrants (Chemical Manufacturing)** (NAICS: 3250A1)

State Government (NAICS 999200)					
Item	Formula	Labor Category <sup>2</sup>			
	i of mana	Managerial	Technical	Clerical	
Unloaded Hourly Rate <sup>1</sup>	= W	\$63.98	\$33.17	\$21.53	
Benefits Percentage <sup>3</sup>	Lb = B/W	46.5%	46.5%	46.5%	
Benefits per hour	B = W*Lb	\$29.73	\$15.41	\$10.00	
Loaded Hourly Rate	Wb = W + B = W(1+Lb)	\$93.71	\$48.58	\$31.53	
Overhead Percentage <sup>4</sup>	Lo = OH/Wb	50%	50%	50%	
Overhead per hour	OH = Wb*Lo	\$46.86	\$24.29	\$15.77	

Fully Loaded Hourly Rate	Wf = Wb + OH = W + B + OH	\$140.57	\$72.88	\$47.30

5. Source: Bureau of Labor Statistics, NAICS 3250A1 – Chemical Manufacturing, May 2017, http://www.bls.gov/oes/current/naics

6.	Standard Occupational Codes:				
	Management:	11-0000, Management Occupations			
	Technical:	19-0000, Life Physical, and Social Science Occupations			
	Administrative:	43-0000, Office, Clerical and Administrative Support Occupations			

- 7. Total benefits/wages based on May 2017 Employer costs for employee compensation, All Civilian nonfarm workers, <u>ftp://ftp.bls.gov/pub/special.requests/ocwc/ect/ececqrtn.pdf</u>
- 8. U.S. Environmental Protection Agency, *EPA Air Pollution Control Cost Manual, Sixth Edition*, EPA-452-02-001, January 2002, pp. 2-34. The loading for indirect costs is within the range of 20-70% of the loaded labor rate (wage + benefits) suggested in EPA guidance.

Item	Formula	Labor Category <sup>2</sup>		
	1 of mulu	Managerial	Technical	Clerical
Unloaded Hourly Rate <sup>1</sup>	= W	\$42.17	\$29.54	\$19.88
Benefits Percentage <sup>3</sup>	Lb = B/W	46.5%	46.5%	46.5%
Benefits per hour	B = W*Lb	\$19.60	\$13.73	\$9.24
Loaded Hourly Rate	Wb = W + B = W(1+Lb)	\$61.77	\$43.27	\$29.12
Overhead Percentage <sup>4</sup>	Lo = OH/Wb	50%	50%	50%
Overhead per hour	OH = Wb*Lo	\$30.88	\$21.63	\$14.56
Fully Loaded Hourly Rate	Wf = Wb + OH $= W + B + OH$	\$92.65	\$64.90	\$43.68

#### States, Tribes, Territories (NAICS 999200)

9. Source: Bureau of Labor Statistics, NAICS 999200 – State Government, May 2017, <a href="http://www.bls.gov/oes/current/naics">http://www.bls.gov/oes/current/naics</a>

10. Standard Occupational Codes:

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Management:	11-0000, Management Occupations
Technical:	19-0000, Life Physical, and Social Science Occupations
Administrative:	43-0000, Office, Clerical and Administrative Support Occupations

11. Total benefits/wages based on May 2017 Employer costs for employee compensation, All Civilian nonfarm workers, <u>ftp://ftp.bls.gov/pub/special.requests/ocwc/ect/ececqrtn.pdf</u>

12. U.S. Environmental Protection Agency, *EPA Air Pollution Control Cost Manual, Sixth Edition*, EPA-452-02-001, January 2002, pp. 2-34. The loading for indirect costs is within the range of 20-70% of the loaded labor rate (wage + benefits) suggested in EPA guidance.

Item	Formula	Labor Category <sup>2</sup>		
Item	Formula	Managerial	Technical	Administrative
Unloaded Hourly Rate <sup>1</sup>	= W	\$59.10	\$38.92	\$21.93
Benefits Percentage <sup>3</sup>	Lb = B/W	46.5%	46.5%	46.5%
Benefits per hour	B = W*Lb	\$27.46	\$18.09	\$10.19
Loaded Hourly Rate	Wb = W+B = W(1+Lb)	\$86.56	\$57.01	\$32.12
Overhead Percentage <sup>4</sup>	Lo = OH/Wb	50%	50%	50%
Overhead per hour	OH = Wb*Lo	\$43.28	\$28.50	\$16.06
Fully Loaded Hourly Rate	Wf = Wb+OH = W+B+OH	\$129.84	\$85.51	\$48.18

## EPA / Federal Government Labor Costs (NAICS 999100)

1. Source: Bureau of Labor Statistics, NAICS 999100 – Federal Executive Branch, May 2017, http://www.bls.gov/oes/current/naics

2. Standard Occupational Codes:

Management: 11-0000, Management Occupations

Technical: 19-0000, Life Physical, and Social Science Occupations

Administrative: 43-0000, Office, Clerical and Administrative Support Occupations

3. Total benefits/wages based on May 2017 Employer costs for employee compensation, All Civilian nonfarm workers, <u>ftp://ftp.bls.gov/pub/special.requests/ocwc/ect/ecccqrtn.pdf</u>

4. U.S. Environmental Protection Agency, *EPA Air Pollution Control Cost Manual, Sixth Edition*, EPA-452-02-001, January 2002, pp. 2-34. The loading for indirect costs is within the range of 20-70% of the loaded labor rate (wage + benefits) suggested in EPA guidance.