

Attachment D

Work Sheets used to Calculate Industry Labor Costs

This attachment is available as part of the electronic **docket EPA-HQ-OPP-2018-0266** and is part of the ICR's Supporting Statement.

NAICS: 3250A1

Chemical Manufacturing (3251, 3252, 3253, and 3259 only)

Labor Category:	Formula	Managerial	Technical	Clerical
Unloaded Hourly Rate ¹	= W	\$58.18	\$30.26	\$19.92
Benefits Percentage ²	Lb = B/W	46.5%	46.5%	46.5%
Benefits per hour	B = W*Lb	\$27.04	\$14.06	\$9.26
Loaded Hourly Rate	Wb = W + B = W(1+Lb)	\$85.22	\$44.32	\$29.18
Overhead Percentage ³	Lo = OH/Wb	50%	50%	50%
Overhead per hour	OH = Wb*Lo	\$42.61	\$22.16	\$14.59
Fully Loaded Hourly Rate	Wf = Wb + OH = W + B + OH	\$127.82	\$66.48	\$43.76

1. Data Source: BLS http://www.bls.gov/oes/current/naics4_3250A1.htm May 2017 data
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Standard Occupational Codes:

Management: 11-0000, Management Occupations

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

Clerical: 43-0000, Office and Administrative Support Occupations

2. Fringe benefits/wage per hour.

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