The Economic Effects on Michigan of the Smiths Aerospace Test and Design Laboratory

Prepared by the Michigan Economic Development Corporation utilizing Regional Economic Models, Incorporated (REMI) software.

Abstract

Smiths Aerospace is considering locating a laboratory in Cascade Township, Michigan. This facility would design, study and test avionics systems and components, mainly for future military aircraft. The new facility would employ up to 120 people by the end of 2005. We estimate that by 2011, this location will have generated a total of 214 jobs in the state. Total state government revenues through 2011, net of MEGA costs and adjusted for inflation, would increase by \$4.6 million (2003 dollars) due to the location of the Smiths Aerospace Test and Design Laboratory.

The purpose of this study is to estimate the potential economic and fiscal benefits to Michigan of Smiths Aerospace locating a laboratory in Cascade Township. Investment activity would take place between 2003 and 2006 with an investment of \$3.2 million. The facility would employ an additional 120 people and would be at full production by 2005.

The estimates of the benefits attributable to the project include the total number of jobs created in Michigan (by major industry, including spin-off jobs), and the associated personal income and state government revenue. Benefits net of the MEGA incentive package, from 2003 to 2011, are shown in the attached table. The MEGA incentive package includes a tax credit to the company equal to 100 percent of the state income tax rate on the payroll (gross wages) of employees hired at the facility for the period 2003 to 2011.

The total employment effects, reported in the first line of the table, include the direct jobs created at the facility itself plus spin-off jobs. The spin-off jobs are created from two sources, increased purchases from Michigan suppliers and spending by people who receive income due to the increased economic activity. In 2005, the first year of full operations, an additional 230 jobs are generated in the state. The total number of jobs (direct plus spin-off) for every direct job introduced constitutes the "employment multiplier." The employment multiplier for the expansion averages 1.72 over the period 2003 to 2011. Sectoral detail on the employment is also shown in the table.

Personal income is shown in the next section of the table. Personal income is defined as the income of Michigan residents from all sources, after deduction of contributions to social insurance programs but before deduction of income tax and other personal taxes. As shown in the table, if Smiths Aerospace were to locate in Michigan under the incentive program, state personal income in 2005 would be higher by \$9.9 million (in current dollars) than it would be without the facility, and in 2011, it would be \$13.5 million higher. Adjusted for inflation, these numbers in 2003 dollars would be \$9.5 million in 2005 and \$11.4 million in 2011.

The gain in economic activity results in higher government revenues. We estimate that in 2007, the first year of full operations without investment activity, the facility would

generate \$889,000 in additional gross state revenue, and that the MEGA package would provide a \$284,000 incentive to Smiths Aerospace. Thus, the new Smiths Aerospace facility would increase state revenues in 2007 by 605,000, net of MEGA costs.

Over the period 2003 to 2011 state government revenue is projected to increase by \$7.5 million (in current dollars) due to the new Smiths Aerospace facility. The MEGA incentive package for Smiths Aerospace is forecast to cost \$2.4 million over the period, resulting in a net increase in state government revenue of \$5.1 million. Adjusted for inflation, the total net increase in state government revenue from 2003 to 2011 would be \$4.6 million in 2003 dollars. These calculations do not include any revenue losses due to the property tax abatement or the investment tax credit. If the costs of the abatement and the tax credit were included, the net revenue gain to state government would be slightly less.

None of the estimates include the nonmeasurable effects that would produce additional economic and fiscal benefits for Michigan, such as the intangible advantages of influencing other location and expansion decisions.

Economic and Fiscal Effects on Michigan - Net Benefits with the Incentive Package **Smiths Aerospace**

Total		\$94,000 7,519 2,398 \$5,121	\$85,192 6,815 2,178 \$4,637
2011	214 0 214 24 170 20	\$13,520 1,082 333 \$749	\$11,370 910 280 \$630
2010	217 1 216 25 25 171	\$12,970 1,038 320 \$718	\$11,148 892 275 \$617
2009	217 216 25 25 171	\$12,330 986 307 \$679	\$10,832 866 270 \$596
2008	219 218 25 172	\$11,690 935 295 \$640	\$10,497 840 265 \$575
2007	222 220 220 25 172 23	\$11,110 889 284 \$605	\$10,196 816 260 \$556
2006	226 3 223 27 173 23	\$10,530 842 273 \$569	\$9,875 790 256 \$534
2005	230 3 227 27 27 175	\$9,918 793 263 \$530	\$9,504 760 252 \$508
2004	193 190 146 176	\$7,751 620 211 \$409	\$7,589 607 206 \$401
2003	2 11 2 11 4 15 15	\$4,181 334 114 \$220	\$4,181 334 114 \$220
Economic/Fiscal Indicator	Total Employment Manufacturing Non-Manufacturing Retail Trade Services Other	In Current Dollars (Thousands): Personal Income Gross State Revenue Mega Cost State Revenue Net of MEGA Cost*	(Thousands of 2003 Dollars): Personal Income Gross State Revenue Mega Cost State Revenue Nega Cost*

* These estimates do not include any state government revenue losses due to the Investment Tax Credit, the Renaissance Zone Credit or the property tax abatement.

Smiths Aerospace Summary Estimates (all estimates in 2003 dollars)

TOTAL JOBS CREATED Direct Indirect	214 120 94
NET POSITIVE STATE REVENUE IMPACT Revenue Foregone Revenue Gain	\$4,637,000 \$2,178,000 \$6,815,000
Personal Income Generated Over Life of MEGA Agreement	\$85,192,000
Average Weekly Wage	\$1,000
Statewide Employment Multiplier	1.72