The Economic Effects on Michigan of the Patriot Antenna Systems, Inc. Expansion

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

Abstract

Patriot Antenna Systems, Inc. is considering expanding their current facility in Sheridan Township, Michigan. This expansion would facilitate the design, engineering, and fabricating of new antenna products. The new facility would employ up to 25 people by the end of 2009. We estimate that by 2014, this location will have generated a total of 56 jobs in the state. Total state government revenues through 2014, net of MEGA costs and adjusted for inflation, would increase by \$1.3 million (2004 dollars) due to the location of the Patriot Antenna Systems, Inc. expansion.

The purpose of this study is to estimate the potential economic and fiscal benefits to Michigan of Patriot Antenna Systems, Inc. locating a design, engineering and fabricating facility in Sheridan Township. Investment activity would take place between 2004 and 2009 with an investment of \$3.5 million. The facility would employ an additional 25 people and would be at full production by 2009.

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 2004 to 2014, are shown in the attached table. The MEGA incentive package includes a tax credit to the company equal to 90 percent of the state income tax rate on the payroll (gross wages) of employees hired at the facility for the period 2005 to 2014.

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 2009, the first year of full operations, an additional 25 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 1.76 over the period 2004 to 2014. 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 Patriot Antenna Systems, Inc. were to locate in Michigan under the incentive program, state personal income in 2009 would be higher by \$2.8 million (in current dollars) than it would be without the facility, and in 2014, it would be \$3.9 million higher. Adjusted for inflation, these numbers in 2004 dollars would be \$2.6 million in 2009 and \$3.2 million in 2014.

The gain in economic activity results in higher government revenues. We estimate that in 2010, the first year of full operations without investment activity, the facility would generate \$230,000 in additional gross state revenue, and that the MEGA package would provide a \$54,000 incentive to Patriot Antenna Systems, Inc. Thus, the new Patriot Antenna Systems, Inc. facility would increase state revenues in 2010 by \$176,000, net of MEGA costs.

Over the period 2004 to 2014 state government revenue is projected to increase by \$2.0 million (in current dollars) due to the new Patriot Antenna Systems, Inc. facility. The MEGA incentive package for Patriot Antenna Systems, Inc. is forecast to cost \$487,000 over the period, resulting in a net increase in state government revenue of \$1.5 million. Adjusted for inflation, the total net increase in state government revenue from 2004 to 2014 would be \$1.3 million in 2004 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 Patriot Antenna Systems, Inc.

Economic/Fiscal Indicator	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Total Employment	16	24	37	46	52	51	52	57	53	37	
Manufacturing	2	9	O	12	14	13	13	13	13	13	
Non-Manufacturing	14	18	28	34	38	38	39	38	40	43	
Retail Trade	2	2	9	4	4	4	4	4	4	, rc	
	80	-	17	20	21	22	22	22	23	24	
	4	5	80	10	13	12	13	12	13	4	
In Current Dollars (Thousands):				-							
Personal Income	\$671	\$1,160	\$1,892	\$2,441	\$2,838	\$2,991	\$3.235	\$3.448	\$3.693	\$3.937	\$26.306
Gross State Revenue	25	68	146	188	219	230	249	265	284	303	2.025
	16	32	43	49	52	54	56	59	62	65	487
State Revenue Net of MEGA Cost*	\$36	\$57	\$103	\$139	\$167	\$176	\$193	\$206	\$222	\$238	\$1,538
Adjusted for Inflation								· _			
(Thousands of 2004 Dollars):		•		·		•					
Personal Income	\$660	\$1,114	\$1,780	\$2,249	\$2,562	\$2,646	\$2,804	\$2.930	\$3.077	\$3.215	\$23.037
Gross State Revenue	51	82	137	173	198	203	216	225	237	247	1 772
	16	31	4	45	47	48	49	20	27	53	431
State Revenue Net of MEGA Cost*	\$35	\$54	96\$	\$128	\$151	\$155	\$167	\$175	\$186	\$194	\$1341

* 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.