

**APPENDIX 10-A. USER INSTRUCTIONS FOR THE NATIONAL IMPACTS
ANALYSIS SPREADSHEET**

TABLE OF CONTENTS

10-A.1	USER INSTRUCTIONS	10-A-1
10-A.2	STARTUP.....	10-A-1
10-A.3	DESCRIPTION OF NATIONAL IMPACT ANALYSIS WORKSHEETS	10-A-1
10-A.4	BASIC INSTRUCTIONS FOR OPERATING THE NATIONAL IMPACT ANALYSIS SPREADSHEETS.....	10-A-2

APPENDIX 10-A. USER INSTRUCTIONS FOR SHIPMENTS AND NATIONAL IMPACT ANALYSIS SPREADSHEET MODEL

10-A.1 USER INSTRUCTIONS

The results obtained in this analysis can be examined and reproduced using the Microsoft Excel spreadsheets accessible on the Internet from DOE's Appliance Standards Rulemaking page: http://www.eere.energy.gov/buildings/appliance_standards/.

10-A.2 STARTUP

The spreadsheet enables users to perform the National Impact Analysis (NIA) of microwave and combination ovens.

To examine the spreadsheets, DOE assumes that the user has access to a personal computer with a hardware configuration capable of running Windows NT/2000/XP. The spreadsheets require Microsoft Excel 2000 or later installed under the Windows operating system.

10-A.3 DESCRIPTION OF NATIONAL IMPACT ANALYSIS WORKSHEETS

The NIA spreadsheets perform calculations to forecast the change in national energy use and net present value of financial impacts due to a revised energy conservation standard. The energy use and associated costs for a given standard are determined by first calculating the shipments and then by calculating the energy use and costs for all heating products shipped under that standard. The differences between the standards and base case can then be compared and the overall energy savings and net present values determined. The NIA spreadsheets consist of the following worksheets:

Input and Summary	The <i>Input and Summary</i> sheet contains user input selections and a summary table for each product class.
Charts	The <i>Charts</i> sheet contains a variety of charts and other information.
Summary (All TSLs)	The <i>Summary (All TSLs)</i> worksheet contains results for all TSLs under a variety of cost scenarios.
ROCIS	The <i>ROCIS</i> worksheet contains the ROCIS results table.
Base Case	The <i>Base Case</i> sheets contains a tabular summary and chart of the annual shipments forecasts for each product class at each trial standard level, along with energy and operating cost calculations.
Standards Case	The <i>Standards Case</i> sheets contains a tabular summary and chart of the annual shipments forecasts for each product class at each trial standard level, along with energy and operating cost calculations.

Learning Rates	The <i>Learning Rates</i> worksheet contains the default learning rate along with other learning rate sensitivities.
Housing Projections	The <i>Housing Projections</i> sheet contains AEO 2010 housing forecasts.
Historical Shipment	The <i>Historical Shipment</i> sheet contains shipments data.
Lifetime	The <i>Lifetime</i> sheet calculates the lifetime expectancy distribution.
Heat Rates	The <i>Heat Rates</i> sheet contains projected site to source heat rates.
Elec Prices	The <i>Elec Prices</i> sheet contains AEO 2010 electricity price projections.

10-A.4 BASIC INSTRUCTIONS FOR OPERATING THE NATIONAL IMPACT ANALYSIS SPREADSHEETS

Basic instructions for operating the NIA spreadsheets are as follows:

Once the NIA spreadsheet file has been downloaded from the Web, open the file using Excel. Click “Enable Macro” when prompted and then click on the tab for the worksheet National Impacts Summary Analysis.

1. Use Excel's View/Zoom commands at the top menu bar to change the size of the display to make it fit your monitor.
2. The user can change the parameters under the title “User Inputs”. The default parameters are:
 - a. TSL Level (cell I3): Set to 3. To change the TSL level analyzed, change the value of this cell. Acceptable values are 1-4.
 - b. Discount Rate: Set to 7 percent. To change value, click on cell C5 and interchange value (7 percent or 3 percent).
 - c. Year To Discount To: Set to 2011. To change value, click on cell C6 and set the desired year.
 - d. Economic Growth: Set to Reference Case. To change the value, use the pull down menu and select the desired level (Reference Case, Low Economic Growth or High Economic Growth).

- e. Market Impact: Set to -0.34. To change the price elasticity, use the pull down menu and select the desired level (RP elasticity = -0.34 or No Impact).
- f. Learning Case: Set to Default. To change the learning rate utilized, use the pull down menu to select the desired rate.

The results are automatically updated and are reported in the National Impact Summary table for each product class. Annualized values are presented as well.