

## User Oriented Computer Codes U. S. Ordering Instructions

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**The Ohio State University  
ElectroScience Laboratory**  
1320 Kinnear Road  
Columbus, Ohio 43212-1191  
Tel: +1-614-292-6030  
Fax: +1-614-292-7297  
E-mail: [usa-codes@esl.eng.ohio-state.edu](mailto:usa-codes@esl.eng.ohio-state.edu)

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The Ohio State University ElectroScience Laboratory (OSU-ESL) has user oriented computer codes available for distribution. The uniform GTD (UTD) based computer codes are the NEC-Basic Scattering Code (**NEC-BSC V4**) and its Workbench (**NEC-BSC Workbench V4**), the OSU-Reflector Antenna Code (**NEC-REF V3**), and the Aircraft Code (**NEWAIR V3**). Their primary uses are for antenna pattern analysis, antenna-to-antenna coupling, and radiation hazard predictions. A radar cross code, the RCS-BSC V2, is also available after approval by the Air Force. These codes are suited for complex environments that are large in terms of a wavelength.

The Electromagnetic Surface Patch Code (**ESP V5.4**) is also available. ESP is a moment method code primarily used for defining antenna parameters and scattering from small objects. This code is most useful for analysis of antennas and scatterers no bigger than a few wavelengths.

The distribution of some of these codes, and their documentation, is limited to U. S. government agencies and their contractors. In particular, the computer codes and their documentation are subject to export controls. Foreign disclosure is limited. *Foreign requests must be handled on a government to government basis through the appropriate embassy in Washington, D. C.*

Some of the codes no longer have export control, however, higher order versions still do. The NEC-REF V3 code no longer has export control. The NEC-BSC has an unrestricted version V4 and a restricted version V4R. The NEC-BSC Workbench also does not have export control. All the other codes listed presently still are export controlled. In all cases, The Ohio State University and the authors retain their rights to the codes and their distribution.

In order to obtain these codes and their documentation, it is necessary to send a letter to OSU-ESL requesting which codes are desired. In the case of the export-controlled code, it is also necessary to include proof of a current U. S. government contract. A fee is assessed, which includes reproduction costs, postage, and handling, as indicated on the accompanying **Order Form**. These prices do not include development costs and no guarantee of accuracy or usability is given for materials obtained.