

SPECIFICATIONS FOR MACHINE-READABLE DELIVERABLES

A. Text

You must submit the final report text in Microsoft Word 10.0+ or PDF. Where technically feasible (and as approved by the Contracting Officer's Representative [COR]) all tables, figures, and graphs shall be submitted in a standard machine readable format.

B. National Oceanographic Data Center (NODC) Data Archiving Agreement

You are responsible for the proper archival of all data collected in this study in the format(s) required by NODC as negotiated with that organization. You must contact the Program Officer of NODC and negotiate an agreement on methodology, format, and documentation for data archiving. Submit a letter documenting this agreement and describing the agreed-upon formats, documentation, etc., to the COR and to NODC.

C. NODC Data Archiving Submission

You are responsible for the submission of the contract data to NODC in accordance with the NODC data archiving agreement as specified above (NODC Data Archiving Agreement). As part of the data archiving submission materials, you will prepare a statement for NODC certification that the data were received in good condition, and conformed to the NODC data archiving agreement. Forward a copy of these data, and the signed certification (upon receipt) to the COR.

D. Physical Oceanographic Data

You must copy Physical Oceanographic Data (hydrographic, current, drifter, winds, etc.) submitted to NODC to Bureau of Ocean Energy Management (BOEM), Division of Environmental Sciences (DES) along with copies of the NODC Data Archiving Agreement and NODC Data Archiving Submission Statement.

E. Geographical Information System (GIS) Data

The Contractor shall submit to BOEM all geospatial data as ESRI ARCGIS Shape files, ESRI grids Geotiffs etc., version 10.0 or later and MS Access files or Geodatabase. All final data deliverables provided by the Contractor shall be compatible with BOEM software and hardware standards. Tabular data that contain the attributes linking or joining it to specific shape files shall be in ACCESS files. If the tabular data contains latitude and longitude coordinates, then those latitudes and longitudes shall be in decimal degrees, with all West longitudes expressed as negative numbers and all North latitudes expressed as positive numbers. All Image data shall be projected to a single agreed upon coordinated system within the project area. All of the spatial data provided by the Contractor to BOEM shall be "geo-referenced". All of the spatial data provided by the Contractor to BOEM will contain projection information so that any image, grid or shapefile can be easily brought into ARCGIS.

The Contractor shall submit metadata to BOEM for each geospatial coverage or shapefile. The metadata shall be included as part of the ARCGIS files (ARC Catalogue). Metadata formatting shall be consistent with the content and transfer standards for digital geospatial metadata as published by the Federal Geographic Data Committee (FGDC). The Contractor should refer to the FGDC Homepage, FGDC Metadata, and Clearinghouse Homepages at: <http://www.fgdc.gov/>.

The final database documentation accompanying the data deliverables shall include a source data dictionary with an Entity Relationship Diagram (ERD). The ERD shall illustrate the relationships between the tables in the database. The table names and fields within the ERD shall be linked to the

data dictionary. An example of a Data Dictionary, Relationship table and Domains table format can be found in BOEM 2002-2011 available at BOEM <http://www.boemre.gov/alaska/ref/AKPUBS.HTM#2002> or <http://www.boemre.gov/itd/akpubs.htm> .

F. Digital Images

All photographs, slides, and images required for this agreement shall be in high quality digital format; i.e., of sufficient resolution for use in publications and presentation software.

G. Other Contract Data

You are responsible for the submission of other (non-NODC data, non-geospatial data) in a standard machine readable format (e.g., ASCII), as approved by the COR, capable of being incorporated into a standard data base management system (e.g., Access, ORACLE) or spreadsheet (e.g., Excel).