

11300
EICO/TJH
6 MAR 2002

MEMORANDUM

From: Special Assistant for Mechanical Engineering and Energy Efficiency, NAVFAC
Engineering Innovation and Criteria Office (Code EICO)

To: Distribution

Subj: COORDINATION OF INTERIM TECHNICAL GUIDANCE (ITG) FY02-3,
ENGINEERING WEATHER DATA, AFH(I) 32-1163/NAVFAC P-89, Dated 1 July
2000 (DRAFT)

Encl: (1) INTERIM TECHNICAL GUIDANCE (ITG) FY02-3, ENGINEERING WEATHER
DATA, AFH(I) 32-1163/NAVFAC P-89, Dated 1 July 2000 (DRAFT)
(2) NAVFAC Form 11012/9 (5-90), "Engineering and Design Criteria Review" comment
sheet

1. Enclosure (1) is forwarded for your review and comment or concurrence. Please provide comments using enclosure (2). Local reproduction of additional copies of enclosure (2) is authorized, if required. Note that Draft INTERIM TECHNICAL GUIDANCE (ITG) 02-2 of 2001 will be published as INTERIM TECHNICAL GUIDANCE (ITG) FY02-2.
2. An essential comment covers requirements or provisions that need to be adopted or reconciled if the document is to be usable by the commenting activity. Please provide specific comments and accompany them with reasons to assist in their understanding and resolution. Editorial and format comments will be considered as suggested comments.
3. To facilitate completion of the document on schedule, response should be received not later than 30 March 2002. Please fax or email your response to:

Tom Harris
NAVFAC Engineering Innovation and Criteria Office
Fax: 757-322-4416
Phone: 757-322-4206/DSN 262-4206
Internet address: harristj@efdlant.navfac.navy.mil

4. Your assistance is appreciated. Questions concerning this document should be addressed to me at 757-322-4206/ DSN 262 4206.

T. J. HARRIS, P.E.

26 FEB 2002

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PWC GUAM (423/Moguel)
NFESC (ESC-22/Heller)
USACOE (CECW-ETE/McCarty)
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USMC HQ (LFF-1/Zeigler)

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DD MMM 2002

From: Special Assistant for Mechanical Engineering and Energy Efficiency,
NAVFAC Engineering Innovation and Criteria Office (Code EICO)

To: Distribution

Subj: INTERIM TECHNICAL GUIDANCE (ITG) FY02-3, "ENGINEERING WEATHER
DATA".

Ref: (a) ENGINEERING WEATHER DATA, AIR FORCE HANDBOOK (I) 32-1163, and
NAVAL FACILITIES ENGINEERING COMMAND PUBLICATION P-89, dated
1 JULY 2000.
(b) Facility Design and Planning ENGINEERING WEATHER DATA, AFM 88-29,
TM 5-785, P-89, dated 1 JULY 1978.
(c) ANSI/ASHRAE/IESNA STANDARD 90.1 of 1999.

1. Purpose. This Interim Technical Guidance (ITG) establishes reference (a) as the current source of Engineering Weather Data (EWD), suitable for design of all shore-based naval facilities. Reference (a) is available on the World Wide Web at <http://afpubs.hq.af.mil/pubfiles/af/32/afh32-1163/afh32-1163.pdf>. This ITG may be retained for record purposes until it is incorporated into Unified Facility Criteria (UFC) documents.

2. Cancellation. Reference (b) is hereby cancelled and replaced by reference (a).

3. Background. As of 8 Oct 2001, DoD adopted the energy conservation standard, reference (c). Interim Technical Guidance (ITG) FY02-2 implemented this adoption within the Naval Shore Establishment. Selection of the proper Building Envelope Requirements Table from within reference (c) depends upon HDD65 (Heating Degree Days based upon 65 degrees F.) and CDD50 (Cooling Degree Days based upon 50 degrees F.) data for the project location.

4. Criteria.

a. Engineering Weather Data. Use the EWD files, per reference (a), available at <http://www.afccc.af.mil>. As a second choice, use ASHRAE weather data; and lastly, use locally available weather data. Until the EWD files are updated to include CDD50 data, use the CDD50 data in Tables D-1, D-2, and D-3 in reference (c).

b. Access Guidance. Described in reference (a), Chapter 1.2, the Data for each individual site is presented in an 18 page Adobe Acrobat file (PDF format). These files were accessed via the internet at: <http://www.afccc.af.mil/climo/public/html/engwx/ewdmain.html>. However, due to revised www site security requirements, it is now necessary to follow these steps to access the EWD site:

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- 1) Access <http://www.afccc.af.mil>.
- 2) Select “.mil domains”, if you are using a computer within the military domain.
- 3) Select “OK” at the Security Alert prompt.
- 4) Select “Yes” at the Security Alert prompt.
- 5) Select “Get products” on left side of page.
- 6) Select “Product Locator” in center of the page.
- 7) From the “Product” pull-down menu, select “Engineering Weather Data (EWD)”.
- 8) From the “Country” pull-down menu, select the country of interest. For the United States, the individual states are listed alphabetically as “United States – Virginia”.
- 9) Select “Submit”.
- 10) Select the station data nearest the project of interest. Consider elevation, topography, and stations in nearby states or countries in your selection of the appropriate station data package.
- 11) Select the “Standard EWD Package” for download. For “Binned Temperature Data”, you may also select that .csv package for download.
- 12) Use “Adobe Acrobat Reader” to open the “Standard EWD Package” .pdf file.

Optionally, you may import the “Binned Temperature Data” .csv file into a spreadsheet program, such as “Excel”.

c. AFCCC Support Assistance Requests. The Air Force Combat Climatology Center (AFCCC) will provide EWD for unlisted sites for DOD activities. Submit a Support Assistance Request (SAR) form to AFCCC. They promptly provided a data package for an overseas location for Navy use, and included it in the database for reuse as needed. The SAR procedure and request forms are located at <http://www.afccc.af.mil>.

5. Action. The NAVFAC Criteria Office has requested the Air Force designate reference (a) as a UFC document and to delete the existing “Weather Region” data from page 1 of all data packages, and replace it with new data. Title requested is “ASHRAE STD 90.1 Degree Days”. The data requested will be the HDD65 and CDD50 values for the respective locations. This will facilitate selection of the correct Building Envelope Requirements Table. We have also requested AFCCC to arrange access, from the public internet, for civilian users, such as designers, engineers, contractors, and vendors.

6. Coordination. This ITG has been coordinated with the activities on the distribution list.

8. Point of Contact. For additional information concerning Engineering Weather Data, please contact me: Mr. Thomas J. Harris, P.E. at DSN 262-4206, commercial 757-322-4206, FAX at 4416, or via Internet at harristj@efdlant.navy.mil.

T. J. HARRIS, P.E.
By direction

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