

# SPADEWORK

ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND



## A VIEW FROM HQ by Gary Mackey

### P-445 Roll-out

As one of the presenters for this effort I was extremely pleased about the reception to this NAVFAC initiative. Quality is major part of our business and is the reminder that lives long after we turn over our facilities to our customers. We need to embrace these principles and make them part of our daily business if you haven't already done it. The next step in the implementation process is for the ROICCs to present their brief to their clients when they regularly meet with them. I provided a copy of this brief to all the ROICCs that I did and if you haven't gotten it, please contact my staff or me. This brief is a recommendation and you can adjust it as it is appropriate. In the very near future we will also be making samples of some QA plans that can be used as examples of what level of details we want. Please send us any examples that you may have to Jim Baldwin if you have any you want to share with the rest of the command. Another initiative we are working on is a checklist or steps that you should take if you have a CQC representative that is not doing their job. This will be helpful in knowing how to get their attention and hopefully performing as soon as possible at the contract requirements. We are only successful if we as a team (NAVFAC and the contractor) doing the Contract Quality Management right. CQM = QC + QA. Thanks again for everyone's positive reception to this initiative and keep raising the quality bar higher.

### PERSONNEL MOVES

CI51 welcomes Kate O'Neill. Kate will be CI51A, John McLaren's assistant.

For moves within the EFA's or proposed articles for the next issue of Spadework, please forward any that you would like posted to Brenda Norton, CI51.

e-mail: [nortonbr@efdlant.navy.mil](mailto:nortonbr@efdlant.navy.mil)

### WEATHER DATA

By Brenda R. Norton, P.E.

LANTDIV, Code CI51

Historical weather information is required by ROICCs to determine if a weather time extension is due on a particular contract. Some offices have been receiving the official weather information from National Oceanic and Atmospheric Administration (NOAA). These official reports require a subscription and must be renewed periodically. This requires a cost to your ROICC budget.

There is another cheaper method available for getting the same information. The National Weather Service (NWS) has a web site which has that same information, is updated daily, and is free. The web site is [www.nws.noaa.gov](http://www.nws.noaa.gov). The NWS has six regions from which to choose your weather information. The web site has summary information for the past several years but has detailed, or F-6, data for the last 12 months. This F-6 data has a list of the days of the month with temperature, precipitation, and wind data. The F-6 data is produced each day and comes directly from the Automated Surface Observing System (ASOS). If you need official certified data, you should order that through the National Climatic Data Center (NCDC). If you need historical data, CI51 has CD-ROMs with complete NCDC weather data from 1961 - 1997 for 262 NCDC stations throughout the United States.

Normally an office will have a database that is kept current with the number of rain days in a month and the monthly precipitation total. You can use this NWS web site to keep your records current daily or monthly without having to wait three or more months until the official NOAA data is published.

If many years of this information have been gathered, you can predict the expected rainfall for a particular month using a five-year or ten-year average. Then you can determine whether the actual rainfall for a particular month is greater than the average. This is traditionally the starting point for determining whether a weather time extension is due. Other factors to consider are dry out days, volume of rain, or continuous rain over a set period of time. In addition, you need to consider what type of construction was being performed and whether the excess rainfall impacted the ongoing work.

## SEABEE WIP

By John P. McLaren, P.E. – CI51

In the last few months it has become apparent there is some confusion on reporting of SEABEE WIP within LANTDIV and the components. First, we need to ensure all SEABEE WIP is being reported where the ROICC is the QA. This is for both Active and Reserve SEABEE jobs in our AOR's. Second, to clarify the WIP reporting process, we need to visit the procedures for capturing SEABEE WIP. The SEABEE WIP reporting process is started by taking the estimated material cost for the work and adding the estimated labor man days times \$350 per man day. The result of the estimated material and man-days is the total amount of WIP used to build the SEABEE contract in FIS. As the job progresses to completion, the amount of work completed each month is loaded into FIS and the job is tracked like any other construction contract by the ROICC. At the end of the job, the total contract amount should be updated to reflect the actual materials and labor expended to complete the work. This last step has not been uniformly accomplished on many of our SEABEE contracts. The update of the WIP is accomplished like a modification to a cost plus contract is entered into FIS. Because we have failed to update the SEABEE actual expensed against the contract, we are losing significant WIP numbers for the year. Please ensure you SEABEE jobs are updated to reflect the actual expensed against the work at the end of the job.

## SAFETY CORNER

By Bill Garrett, CI52

ROICC  
EMPLOYEE  
FALL  
PROTECTION



ROICC quality assurance personnel on very rare occasions are required to verify contractor work at elevations greater than six feet. In these cases it is extremely important that the required fall protection systems are in place. Our worst fear as a

command is that one of our own employees could be injured. In locations where there is no conventional guardrail system, personal fall arrest systems (body harnesses/lanyards) are being purchased for use. In accordance with LANTNAVFACINST 5100.17 the equipment will be distributed and used by only those ROICC employees who have become competent through the required training for the equipment use. Training for LANT ROICC personnel will be provided through coordination with the Construction Safety Specialist within each EFA/EFD AOR. Additional fall protection program guidelines are being developed.

### UTILITY LOACTING NEAR MISS:

A project recently required the complete demolition and removal of a building. As standard practice the site was scoped by the local station utilities and the location of underground utilities identified. During the demolition of the building, an electrical duct bank was damaged by the demo excavator causing interruption of electrical service to the buildings served by the duct bank but luckily not causing personal injury to any of the contractor employees. This incident has highlighted the need for more thorough site surveys for utilities. The as built site drawings were not reviewed by the scoping crew assigned the responsibility to locate the utilities and no one thought the duct back would have traveled under the old building but it did. The lessons from this have created new regional procedures for scoping. The station utilities will now contract out the utility locating service using qualified locating service companies. This is a positive step because of the confusion that has often occurred as a result of Miss Utility only scoping their stuff and not other utilities owned and operated by the station or others.

When dealing with contractors we need to remember that they are still required to contact Miss Utilities, and in accordance with Specification Section 01525 hire a locating services contractor of their own to locate underground utilities in addition to any station locating service performed.

See Electrical Technical Support Article attached.

## CLOSING THOUGHT...

"Not doing more than the average is what keeps the average down."

- William M. Winanas

G.W. Mackey, P.E.  
Deputy Division Operations Officer  
Construction Product Line Leader

## Technical Support for Electrical Construction

The Construction Engineering Branch, Code CI52, is available to provide assistance on all electrical construction matters, including the specialized areas of power generation (prime power, standby power, peak shaving and UPS), field acceptance testing of electrical apparatus, and fiber optics.

These technical services can be provided for the following areas:

- ❑ **Power Generation**
  - Coordinating with the customer regarding criteria and requirements, including constrains pertaining to maintaining operation during construction and outages required for acceptance testing.
  - Providing guidance to the Architect-Engineer on technical issues, submittal requirements, testing and training requirements, and constructability issues.
  - Reviewing pre-final and final plans and specifications.
  - Participating in pre-construction conferences
  - Conducting pre-submittal meeting with equipment manufacturer
  - Providing construction surveillance
  - Reviewing critical submittals
  - Witnessing factory testing
  - Witnessing functional field acceptance testing
  - Monitoring training provided  
(Factory testing and functional field acceptance testing of all systems involving the parallel operation of generators or generator(s) in parallel with utility power should be coordinated with the Construction Engineering Branch.)
- ❑ **Inspection, Testing, Calibration and Adjustment of Electrical Equipment and Material by Approved Testing Organization**
  - Reviewing inspection and test procedures
  - Witnessing field testing
  - Reviewing inspection, calibration and test results
- ❑ **Fiber Optics**
  - Providing construction surveillance
  - Reviewing submittals
  - Witnessing field acceptance testing

In addition to these technical services the following support can be provided on all electrical construction:

- ❑ **Construction surveillance**
  - Field inspection
  - Interpretation of plans and specifications
  - Evaluation of design issues
  - Providing advice on field changes
- ❑ **Change Orders**
  - Providing advice on proposed changes
  - Reviewing and evaluating contractor's proposal
  - Assistance in preparation of Government's pre-negotiation position
  - Assistance in Negotiations
- ❑ **Disputes and Claims**
  - Assistance in evaluating and resolving disputes
  - Participating in establishing Government position
  - Participating in resolution of claims (provide response and prepare interrogatives, etc.)

The points of contact in the Construction Engineering Branch for matters pertaining to all electrical construction issues are:

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(757) 322-8415  
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