MEMORANDUM

To: Regional Director
   Attention: PN-1000, MP-100, LC-1000, UC-100, GP-1000

From: Michael R. Gabaldon
      Director, Technical Resources

Subject: Revised Facilities Instructions, Standards, and Techniques (FIST) Volume 3-8,
         "Operation Maintenance, and Field Test Procedures for Protective Relays and
         Associated Circuits"

We are transmitting the revised FIST Volume 3-8, "Operation Maintenance, and Field Test
Procedures for Protective Relays and Associated Circuits" attached to this memorandum.

FIST Volume 3-8 has been the main source for implementing preventive maintenance for
protection systems within the Bureau of Reclamation powerplants. FIST Volume 3-8 was
originally published in 1991 and later revised in 2000; however, the document did not include
information that was needed to perform maintenance on solid-state and microprocessor based
relays. Also, the previous FIST Volume was not written to address regulatory requirements that
were implemented over the past several years.

The provisions of this FIST should be implemented as soon as possible. However, since some of
the required maintenance and testing practices and required intervals have been changed, full
implementation of this FIST volume is not required until January 1, 2013.

In this new version of FIST Volume 3-8, the entire document has been reworked to take into
account changes in technology, design practices, and regulations that directly affect the testing
and maintenance of protection systems within Reclamation. Definite timelines have been
established for maintenance and testing based on industry standards, technical references, and
Reclamation best practices to meet mandatory reliability requirements. Additionally, the FIST
Volume outlines the necessary maintenance that should be performed on each part of the
protection system including several ways to perform the necessary maintenance based on
equipment configuration, accessibility, and type of equipment to be maintained.

FIST Volumes may be accessed via the intranet at http://intra.usbr.gov by selecting "Power
O&M" from the Quicklist, or via the internet at http://www.usbr.gov/power/data/fist_pub.html.
As FIST Volumes are available on the intranet and the internet, only limited numbers of hard
copies will be available from the Hydropower Technical Services Group by request at 86-68440, or by contacting Jim Zeiger at 303-445-2300.

Attachment

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