

Guide
to
DES Testing

Pacific Gas and Electric Company

ESP/CTA Relations

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OVERVIEW OF PG&E'S DATA EXCHANGE SERVICE

(This chapter last modified on 4/13/98)

Background

The Data Exchange Service (DES) is a World Wide Web (WWW) server installation. DES operates as an intermediate data queue which facilitates the exchange of Direct Access (DA) requests and data as well as Core Gas Aggregation requests between PG&E and ESPs or CTAs across the Internet. Currently, the types data transmitted through DES include CTA-initiated Gas Aggregation Service Requests (GASRs), ESP-initiated Direct Access Service Requests (DASRs, electricity commodity metering and billing data, as well as PG&E-initiated DASR transactions such as confirmations, rejections, pending memos, and acceptances.

Data is transmitted via DES in the form of electronic files which conform to established California Metering Exchange Protocol (CMEP) rules. Once electronic data exchange standards organizations catch up with energy industry restructuring changes, CMEP may be replaced with an international data format. For more information on CMEP, please consult the California Metering Exchange Protocol link which can be found on the index page of the DES Website at <http://mads.pge.com>.

DES handles the user authentication, file directory organization, and security administration activities. The functional components of DES were developed as a Web server Common Gateway Interface (CGI) program written in C. This architecture allows DES to have the greatest possible portability between a variety of operating systems and Web server types.

DES Data Retrieval Methods

For flexibility and long term applicability, DES is designed to be insensitive to the format of data transferred through the service. Content of the files is not monitored by DES. The unit of data transfer is electronic file.

DES supports two (2) different mechanisms for data retrieval:

1. **Browser Mode Data Retrieval (For ESPs only):** This method utilizes a Web browser interface for data retrieval and submission through non-dedicated desktop PC systems. The interface gives ESPs the ability to input DASRs, one at a time while connected to the Internet via the ESP's Web browser.
2. **Direct Mode Data Retrieval (For ESPs and CTAs):** This method facilitates the automated transfer of data files between DES and the ESP's computer systems. This mechanism utilizes two (2) applications: **http_put.exe** (for uploading data) and **http_get.exe** (for downloading data). Both http_put.exe and http_get.exe can be downloaded from the DES Website.

Testing Requirements

Use of the CMEP protocol and data transmission via DES requires that the ESP/CTA develop and test a methodology for the creation and interpretation of valid CMEP. Examples of valid and invalid files are available on the DES Website. All ESPs/CTAs that interface with PG&E with respect to DA or Core Gas Aggregation will need to develop a system for the generation and processing of data they enter and receive from DES. Additionally, ESPs who plan to offer Consolidated UDC billing will need to test the electronic transmission of their rates using CMEP protocol. ESPs who plan to offer Consolidated ESP billing will need to initiate EDI testing. EDI testing procedures can be obtained by contacting Tom Elder, EDI Implementation, at 415-973-5119.

All ESPs/CTAs should test electronic data transfer through DES well in advance of submitting their initial DASRs/GASRs. A successful test of the DES interface includes the following:

1. Test and verify the ability to connect to the DES directory using a provided user ID and password.
2. Test and verify the ability to upload and download test data files to and from DES which includes:
 - DASRs or GASRs
 - Meter read information (**ESPs only**)
 - Billing rate submissions and billing data download (**ESPs only**)

3. Test and verify the complete system. The system will accept a test DASR submitted for a customer selected from a test database and provide acknowledgment followed by processing and acceptance of the customer switch to DA.

DES Resources

Questions regarding CMEP of systems implementation requirements related to DES should be directed to the PG&E DES administrators indicated below.

NAME	DES AREA	PHONE	EMAIL
LYNN McELHATTON	USER ACCESS CONTROL AND DES ADMINISTRATOR	415-973-8080	LDMJ@PGE.COM
GARY WESCOM	TECHNICAL SUPPORT	805-595-6348	GRW1@PGE.COM

ESPs can also find the information on the topics described below through links on the DES Website index page.

- Checklist for submitting DASRs
- Frequently asked questions
- California Metering Exchange Protocol (CMEP), version 1.10
- CMEP transaction map (includes PG&E required fields)
- Transaction comment codes
- Glossary of terms used within the DES Website
- Troubleshooting guide
- Setting up NT Server and IIS for Internet operation
- Setting up Secure Socket Layer (SSL) in IIS

SYSTEMS PREPARATION FOR ELECTRONIC DATA EXCHANGE

(This chapter last modified on 4/13/98)

In order to initiate electronic data transfer ESPs and CTAs must establish a systems environment which can support the processing requirements related to DASRs and GASRs. Additionally, ESPs will need to be able to submit metering and billing related data as well. ESPs and CTAs are responsible for ensuring that the requirements below have been met prior to engaging in either testing or the submission of actual electronic data through DES.

1. An ESP/CTA must have the capability to exchange data with PG&E via the Internet.
2. Hardware requirements:
 - a connection to the Internet which can run command line utilities
 - a PC which runs either Windows 95 or NT
 - a Web browser installed that uses a Secure Socket Layer (SSL) such as Microsoft Internet Explorer 3.02 (or above) or Netscape Navigator 3.03
3. Software requirements:
 - **http_put.exe** (available through the *Downloadable Programs for Data Transfer* link on the DES Website)
 - **http_get.exe** (available through the *Downloadable Programs for Data Transfer* link on the DES Website)
4. Technical skill requirements:

Systems Preparation for Electronic Data Exchange

- Familiarity with Windows 95 or NT
- Familiarity with working with the command/DOS prompt
- Familiarity with common Web browsers
- Knowledge of the type of Internet connection available for use

Additionally, ESPs should be aware of the following limitations regarding DES-related software:

- **Http_get.exe** and **http_put.exe** will not work going through a proxy that requires user authentication for secure socket connections.
- Metering files can also be retrieved from the DES server by using a Web browser. Tested browsers that work are: Netscape Navigator, version 3.03 and Microsoft Internet Explorer, version 3.02 (or above). The browser used must support Secure Socket Layers. This method is slower than using `http_get.exe`. Furthermore, files cannot be uploaded to the DES server via a Web browser. Currently, the only method for uploading a CMEP format file is by using `http_put.exe`.
- **Http_get.exe** and **http_put.exe** are 32-bit programs which will only work within the Windows 95 and NT operating systems. Both executables are run from the command/DOS prompt.

DES TESTING PROCEDURES

(This chapter last modified on 4/13/98)

Overview

A successful test of an ESP's connection to PG&E's DES server would mean that the ESP or CTA is able transfer a DASR/GASR file to the server as well as retrieve a file from the server. The sequence of test actions discussed in this chapter represent those which the ESP or CTA will need to perform when sending or retrieving DASRs or GASRs in a real life scenario. The objective of this test sequence is to verify the ESP/CTA's ability to interface with DES.

The DES test sequence described within this chapter follows the main process steps listed in the "*Checklist of Key Steps*". Steps which pertain to ESPs only are indicated.

Checklist of Key Steps

#	STEP
1.	PRINT AND READ THE "CALIFORNIA METERING EXCHANGE PROTOCOL (CMEP)", "CMEP TRANSACTION MAP", AND "ADMINISTRATIVE COMMENT CODE" DOCUMENTS, ALL AVAILABLE THROUGH THE DES WEBSITE AT HTTP://MADS.PGE.COM/ .
2.	ACQUIRE DES TEST ACCOUNT.
3.	CREATE A DIRECTORY FOR DOWNLOAD FILES.
4.	DOWNLOAD FILES NECESSARY FOR DES TESTING.
5.	TEST SUBMITTAL OF A DASR/GASR.
6.	TEST RETRIEVAL OF A FILE FROM PG&E.
7.	TEST DOWNLOAD OF METER DATA (APPLICABLE TO ESPs ONLY).

DES Test Sequence Procedures

During the testing sequence the ESP/CTA should use the sample files specified. The DES Testing Administrator (see the section, "**DES Resources**" within the Preface to this handbook) will provide acknowledgments back to the ESP/CTA for the sample files which it has submitted. Acknowledgment response time will be dependent on the number of tests taking that place during a given period. The ESP/CTA may also choose to transfer other files onto their test directory to test data transmission to the DES server; these files will not receive an acknowledgment. Test directories are also established and assigned by the DES testing administrator.

The test sequence utilizes two (2) executable files, http_get.exe and http_put.exe, developed to transfer data to and from the user's directory on the DES server.

Any problems or questions encountered with the DES test sequence procedures should be directed to the DES Administrator listed within the "**DES Resources**" section of the Preface to this guide.

Print and read required documentation

ESPs and CTAs must read the documentation listed below prior to proceeding with the testing sequence. Subsequent technical support from PG&E analysts requires that ESPs

and CTAs are familiar with CMEP terminology, transactions, field types, and data elements.

The following documentation can be obtained from the DES website at <http://mads.pge.com/>.

- CMEP Protocol
- CMEP Transaction Map
- Administrative Transaction Comment Codes

Acquire test account

Contact the DES Testing Administrator to establish a test account, user ID, user password, and test directory on the DES server. See the section, “*DES Resources*” within the preface to this handbook for DES contact telephone numbers.

Note: The DES Testing Administrator will provide CTAs who will be testing the submission of GASRs with fictitious test data to use during the record input process.

Create a directory for download files

Prior to downloading files, create a subdirectory on the C: drive called **Destest**. Destest will be the directory where you will download all the files required for DES testing.

1. Open Windows Explorer or File Manager.
2. Click once on the C: drive icon to select it.

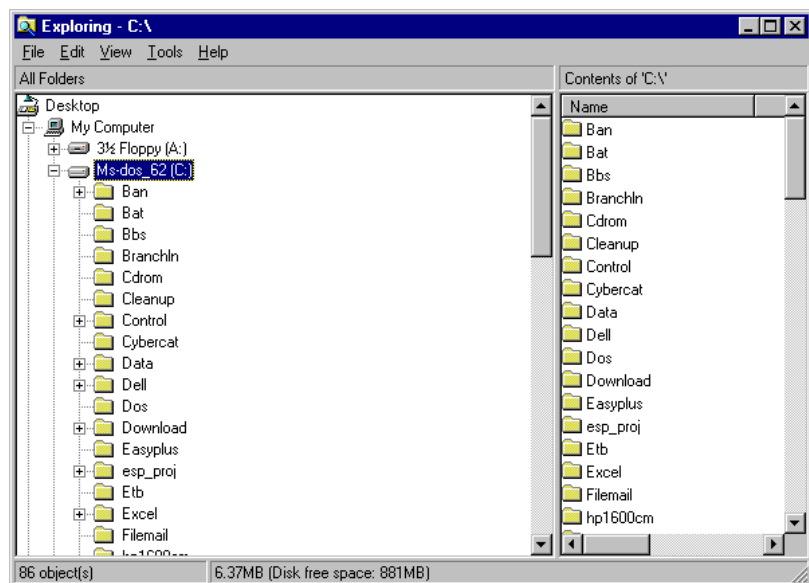


EXHIBIT: C DRIVE ICON

DES Testing Procedures

- From menu bar select **File, New, Folder** to create a new folder within the C: drive. A “New Folder” icon will appear within the window showing the contents of the C: drive.

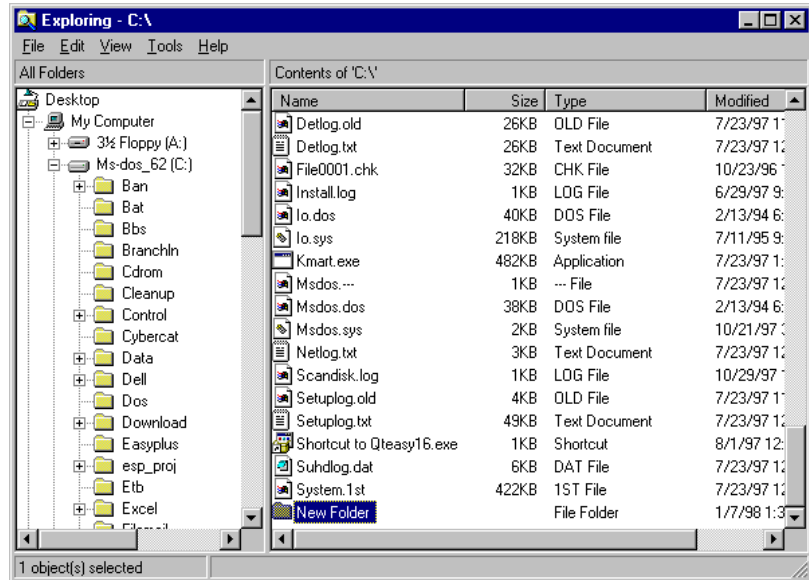


EXHIBIT: CREATING A NEW FOLDER

- Rename the folder by right-clicking the “New Folder” icon and selecting **Rename**.
- Rename the folder “Destest” and click OK.

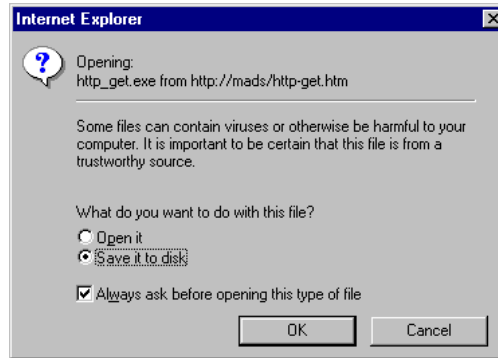
Download files required for DES testing

You will now first download the files required for testing the transmission and retrieval of data and then download the test data files that you will use to test data transfer to and from the DES server.

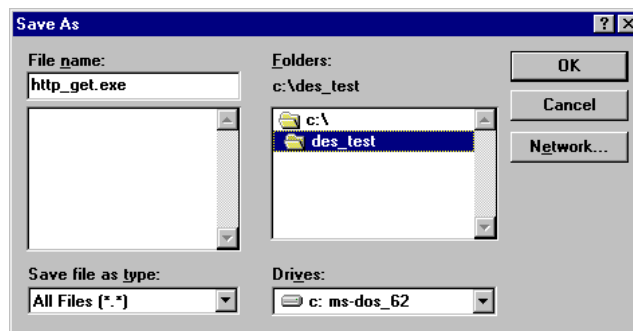
DOWNLOADING FILES REQUIRED FOR DATA TRANSFER

DOWNLOADING HTTP_GET.EXE

- Make certain that your Internet browser is running and that you are currently in the DES Website at <http://mads.pge.com>.
- From within the DES Website index page, click on the *Downloadable Programs for Data Transfer* link.
- From the *Downloadable Programs for Data Transfer* page, click the **Download HTTP_GET.EXE** link. The following dialog box will appear on your screen:



4. Make certain that you have selected the **Save to disk** radio button and then click OK. The following dialog box will appear:



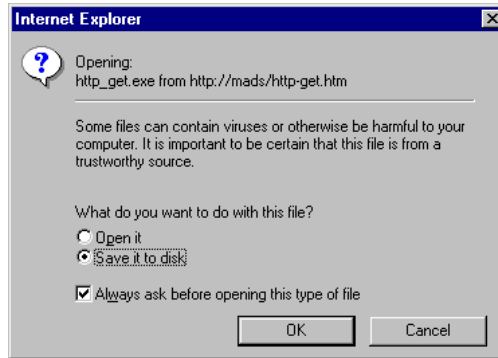
5. Change folders within the dialog box to C:\destest and click OK. **Http_get.exe** will be copied into the C:\destest folder.

DOWNLOADING HTTP_PUT.EXE

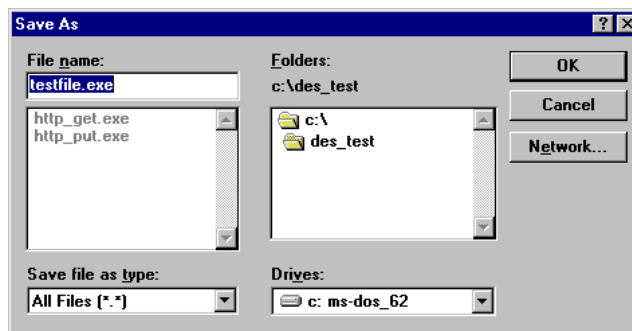
To download http_put.exe repeat steps 1 through 5 above.

DOWNLOAD SAMPLE DATA FILES

1. From within the DES Website index page, click on the *Sample DASR files* link.
2. From the *Sample DASR files* page, click the **Download TESTFILE.EXE** link. The following dialog box will appear on your screen:



3. Make certain that you have selected the **Save to disk** radio button and then click OK. The following dialog box will appear:

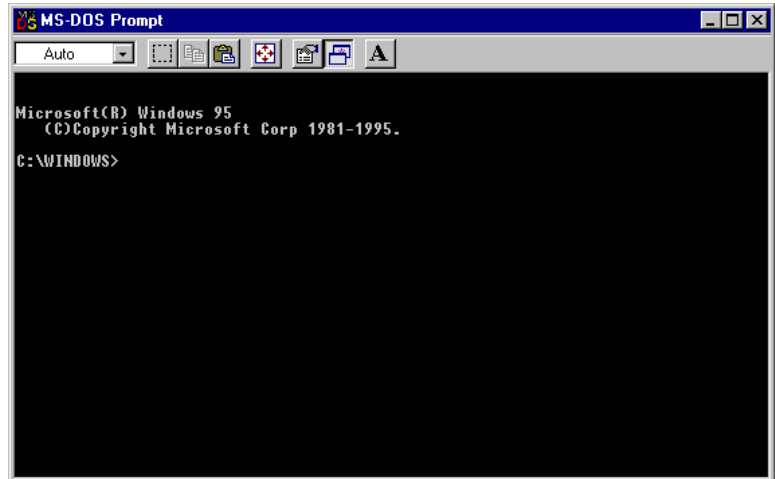


4. Change folders within the dialog box to C:\destest and click OK. **Testfile.exe** will be copied into the C:\destest folder.

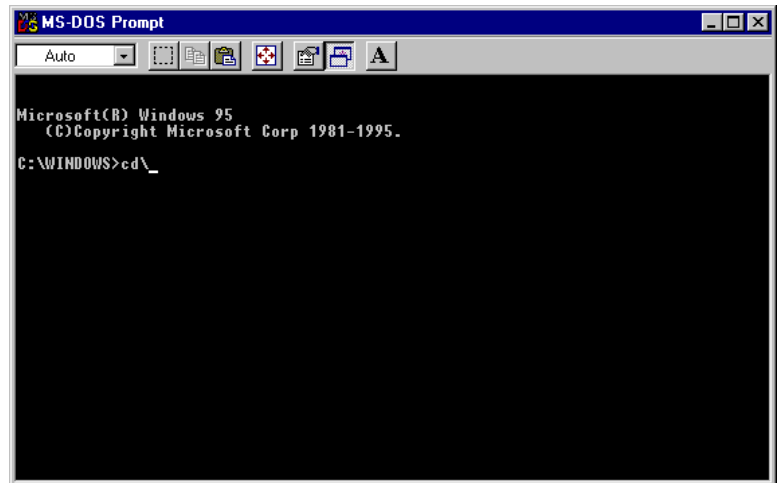
EXTRACTING SAMPLE DATA FILES

You will now need to extract the individual files contained within **TESTFILE.EXE**.

1. Minimize the Internet browser.
2. Click on **Start, Programs, MS_DOS Prompt**.
3. The DOS shell will appear as shown below.

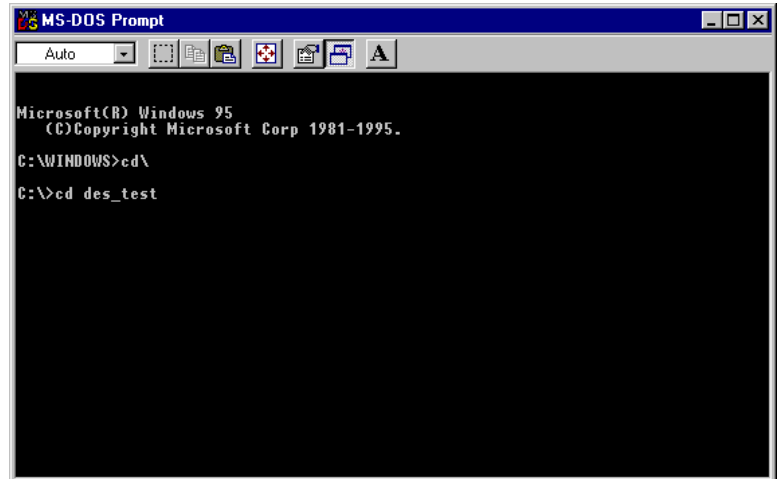


4. If you are not currently in the C:\destest, you will need to change directories by doing the following:
 - a) Make certain you are within the C: drive. If you are not currently within the C: drive, type **C:** at the command prompt and press <enter>.
 - b) Type **cd** at the command prompt and then press <enter>.

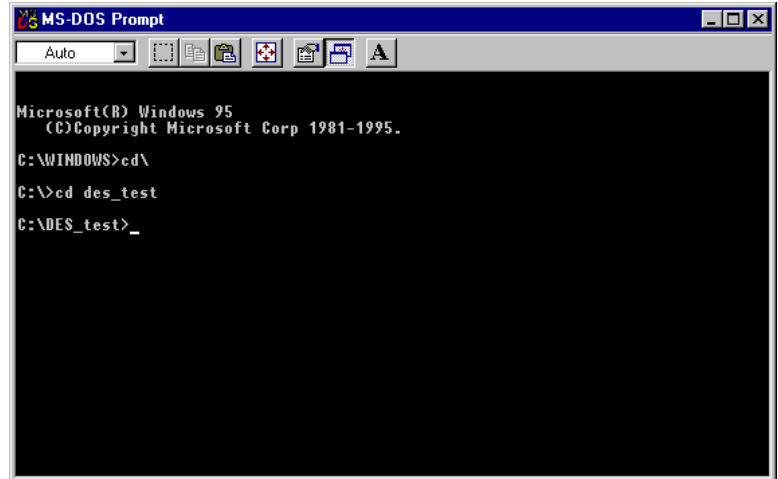


- c) Type **cd destest** at the command prompt and then press enter.

DES Testing Procedures



d) The command prompt should appear as shown below.



5. At the C:\destest command prompt, type, **testfile.exe** and press <enter>. The files indicated in the list below will be extracted to your C:\destest directory. *Note: CTAs may not use all of the test files which have been copied to C:\destest.*

SAMPLE DATA FILE NAME	DESCRIPTION
GOOD.CSV	CONTAINS A COMMA SEPARATED SAMPLE FILE OF "VALID" REQUESTS
GOOD.DOC	CONTAINS DESCRIPTIONS OF EACH RECORD ENTRY IN GOOD.CSV
BAD.CSV	CONTAINS A COMMA SEPARATED SAMPLE FILE OF "INVALID" REQUESTS
BAD.DOC	CONTAINS DESCRIPTIONS OF EACH

SAMPLE DATA FILE NAME	DESCRIPTION
ACK.CSV	RECORD ENTRY IN BAD.CSV CONTAINS A COMMA SEPARATED SAMPLE FILE OF "CONFIRMED" REQUESTS
ACK.DOC	CONTAINS DESCRIPTIONS OF EACH RECORD ENTRY IN ACK.CSV
NAK.CSV	CONTAINS A COMMA SEPARATED SAMPLE FILE OF "REJECTED" REQUESTS
NAK.DOC	CONTAINS DESCRIPTIONS OF EACH RECORD ENTRY IN NAK.CSV

6. If you wish to continue with the DES testing sequence, follow the procedures outlined within the next section. If you wish to continue the testing sequence at another time, type **exit** at the command prompt and press <enter> to close the DOS shell.

Testing the submittal of a DASR/GASR

This section addresses testing the submittal of a test DASR or GASR. Since test procedures differ for DASRs and GASRs, we have separated the processes within this section. For instructions on DASR submission testing see the procedures under the heading "DASR (ESP) Procedures"; for GASR testing, see the procedures under the heading "GASR (CTA)Procedures".

DASR (ESP) PROCEDURES

DASR test procedures require that you work from within the DOS shell. If you are not currently within the DOS shell follow steps 1 through 4 in the previous section "*Extracting Sample Data Files*" before continuing. When conducting testing procedures from within DOS always make certain that your working directory is **C:\destest**.

Definitions of the command line syntax used in the examples to follow are covered in the subsequent section of this chapter, "*Command line syntax*".

ENTER USER ID AND PASSWORD

1. From within the DOS shell at the C:\destest command prompt, type:
set http_user=your user ID and press <enter>.
2. Then type, **set http_password=your user password** and press <enter>.

DES Testing Procedures

You should now be able to proceed with testing the submittal of a test DASR.

SUBMIT TEST DASR USING HTTP_PUT.EXE AND VIEW UPLOAD

From the C:\destest command prompt, type

**http_put https://mads.pge.com/m/nph-mads.exe?[name of test directory]/good.csv
good.csv** and press <enter>. The GOOD.CSV file will be uploaded to the DES server.

VERIFY THE TRANSFER OF THE TEST DASR TO THE DES SERVER

To view the results of the test DASR submittal, at the command prompt, type

http_get https://mads.pge.com/m/nph-mads.exe?[name of directory]/UPLOAD/dir
and press <enter>. You should be able to see the file you just downloaded within the displayed list.

GASR (CTA) PROCEDURES

DOWNLOAD THE DASR/GASR APPLICATION TOOL

CTAs will create a test GASR file by using the Visual Basic DASR/GASR application tool. Follow the instructions below to download the tool.

1. From within the DES Website index page, click link. on the ***Downloadable Program for Creating DASRs/GASRs*** link.
2. Click the ***Download MEPSETUP.EXE*** link. Follow the directions at the top of the web page to extract and setup the DASR/GASR application tool.

HAVE THE CMEP PROTOCOL DOCUMENTATION AVAILABLE

Before inputting sample data, make sure that a printed copy of the CMEP documentation is close by for reference.

INPUT SAMPLE DATA USING THE DASR/GASR APPLICATION TOOL

CTAs should use the fictitious sample information which was provided by the DES Testing Administrator at the time the test account was established.

- Within the “Page 1” tab, input data into the required fields indicated in the table below. The screen shot which follows provides an example of how “Page 1” should look when you are finished.

FIELD NAME	REQUIRED ENTRY FOR NEW SETUP REQUEST
SENDER ID	IDENTIFIER COMMUNICATED TO PG&E DURING CONTRACTING PROCESS. THIS MAY BE THE ESP DUNN & BRADSTREET # OR ANOTHER IDENTIFIER WHICH THE ESP HAS REQUESTED TO USE. PG&E WILL RETURN THIS IDENTIFIER TO THE ESP IN THE RECEIVER ID FIELD OF THE ACKNOWLEDGMENT AND CONFIRMATION DASR'S.
SENDER CUSTOMER ID	THIS FIELD IS THE ESP'S CUSTOMER IDENTIFIER. PG&E WILL RETURN THIS IDENTIFIER TO THE ESP IN THE RECEIVER CUSTOMER ID FIELD OF THE ACKNOWLEDGMENT AND CONFIRMATION DASR'S.
RECEIVER ID	THIS IS PG&E'S IDENTIFIER COMMUNICATED TO THE ESP DURING THE CONTRACTING PROCESS. PG&E WILL RETURN THIS IDENTIFIER TO THE ESP IN THE SENDER ID FIELD OF THE ACKNOWLEDGMENT AND CONFIRMATION DASR'S.
RECEIVER CUSTOMER ID	THIS FIELD IS PG&E'S CUSTOMER IDENTIFIER (EITHER ACCOUNT NUMBER OR GEN-ID). IF THE ESP POPULATES THIS FIELD WITH PG&E'S CUSTOMER ACCOUNT NUMBER, PG&E WILL RETURN THE CUSTOMER'S UNIQUE IDENTIFIER (GEN-ID) TO THE ESP IN THE SENDER CUSTOMER ID FIELD OF THE ACKNOWLEDGMENT AND CONFIRMATION DASR'S. THE CUSTOMER'S GEN-ID IS TO BE USED AS PG&E'S CUSTOMER IDENTIFIER IN ALL FUTURE TRANSACTIONS FOR THIS CUSTOMER BETWEEN THE ESP AND PG&E.
OPERATION TYPE	SELECT 'SP-REQ' FROM THE DROP-DOWN LIST.
REASON	SELECT 'CONNECT' FROM THE DROP-DOWN LIST.
SERVICE RELATIONSHIP COUNT	DATA IN THIS FIELD IS CALCULATED BY THE APPLICATION TOOL ONCE THE CTA CHOOSES "GAS-ESP" WITHIN THE "TYPE OF SERVICE RELATIONSHIP" FIELD. THE FIELD VALUE SHOULD ALWAYS BE "1". IN THE EVENT THAT THE FIELD DATA IS NOT CORRECTLY CALCULATED, THE CTA MAY MANUALLY ENTER A "1".
TYPE OF SERVICE RELATIONSHIP	THIS FIELD IDENTIFIES THE TYPE OF SERVICE REQUESTED. CTAS MUST ALWAYS SELECT "GAS-ESP" ONLY. DO NOT DESIGNATE OTHER SERVICE RELATIONSHIP.

The screen shot which follows provides an example of how "Page 1" should look when you are finished.

DES Testing Procedures

- Within the “Page 2” tab, input data into the required fields indicated in the table below.

FIELD NAME	REQUIRED ENTRY FOR NEW SETUP REQUEST
CUSTOMER NAME	ENTER CUSTOMER NAME. THIS FIELD MAY CONTAIN A COMMERCIAL NAME OR IF RESIDENTIAL THE CUSTOMER’S NAME IN THE FOLLOWING FORMAT: LAST FIRST M
HOUSE / BUILDING #	ENTER THE HOUSE OR BUILDING NUMBER OF THE SERVICE ADDRESS (EXAMPLE: IF SERVICE ADDRESS IS 100 MAIN ST., ENTER 100)
STREET NAME	ENTER THE STREET NAME OF THE SERVICE ADDRESS (EXAMPLE: IF SERVICE ADDRESS IS 100 MAIN ST., ENTER MAIN)
CITY	ENTER THE CITY OF THE SERVICE ADDRESS
STATE	ENTER THE STATE OF THE SERVICE ADDRESS
ZIP	ENTER THE ZIP CODE OF THE SERVICE ADDRESS

Chapter 2

The screen shot which follows provides an example of how “Page 2” should look when you are finished.

- Within the “Page 3” tab, input data into the required fields indicated in the table below.

FIELD NAME	REQUIRED ENTRY FOR NEW SETUP REQUEST
BILLING OPTION	<p>SELECT THE REQUESTED BILLING OPTION (DUAL = DUAL BILLING, SP = ESP-CONSOLIDATED BILLING, UDC = UDC-CONSOLIDATED BILLING)</p> <p>FROM THE DROP-DOWN MENU. (NOTE: IF UDC IS SELECTED, THEN THE</p> <p>SP RATE NAME FILED IS REQUIRED). PG&E WILL RETURN THE APPROVED BILLING OPTION IN THE CONFIRMATION DASR.</p>
PENDING SP IDENTIFIER	<p>ENTER YOUR CTA SERVICE PROVIDER IDENTIFIER NUMBER. THIS NUMBER WILL CORRELATE WITH THE RELATIONSHIP REQUESTED IN THE “TYPE OF SERVICE RELATIONSHIP” FIELD. THIS FIELD MUST BE POPULATED TO ESTABLISH SERVICE RELATIONSHIPS. THIS FIELD WILL USUALLY BE IDENTICAL TO THE “SENDER ID” FIELD. PG&E WILL RETURN THIS IDENTIFIER TO THE ESP IN THE RECEIVER ID FIELD OF THE ACKNOWLEDGMENT AND CONFIRMATION GASRS.</p>

DES Testing Procedures

FIELD NAME	REQUIRED ENTRY FOR NEW SETUP REQUEST
COMMODITY	SELECT "G" (GAS) FROM THE DROP-DOWN MENU.

The screen shot which follows provides an example of how "Page 3" should look when you are finished.

DASR - Admin Record - MEPAD01 - Version 19970912

Page 1 Page 2 Page 3 Page 4

Standard Time Zone: [] Daylight Time Zone: []

Service Category: [] Meter Congestion Zone: []

Usage Profile: [] Billing Option: SP []

UDC Rate Name: [] SP Rate Name: []

Phone International Access: [] Phone Area Code: [] Phone Number: []
(without dashes)

Phone Extension Number: [] FAX Number: []

Renewable Energy Provider: N/A Y N

Pending SP ID: 006192877 []

Reading Estimation Method: [] Commodity: G []

New Clone Cancel Save Record Navigator Delete Import Export Exit

- "Page 4" is not currently being used for GASR submission. Do not enter data into this screen
- Once the data has been entered, click on <SAVE> to save the GASR data you have entered.
- Click on <EXPORT> to save the GASR to a specific directory. When prompted, name the file "testgasr.csv" and save to your C:\destest\ directory.
- Click on <EXIT> to exit the DASR/GASR application tool.

SUBMIT GASR TEST FILE USING HTTP_PUT.EXE

You will now need to test the submission of the test file you just created. If you are not currently within the DOS shell follow steps 1 through 4 in the previous section "Extracting Sample Data Files" before continuing. When conducting testing procedures from within DOS always make certain that your working directory is C:\destest.

Definitions of the command line syntax used in the examples to follow are covered in the subsequent section of this chapter, “*Command line syntax*”.

- From the C:\destest command prompt, type

```
http_put https://mads.pge.com/m/nph-mads.exe?[name of test directory]/testgasr.csv  
testgasr.csv and press <enter>. The TESTGASR.CSV file will be uploaded to the  
DES server.
```

VERIFY THE TRANSFER OF THE TEST GASR TO THE DES SERVER

To view the results of the test GASR submittal, at the command prompt, type

```
http_get https://mads.pge.com/m/nph-mads.exe?[name of directory]/UPLOAD/dir  
and press <enter>. You should be able to see the file you just downloaded within the  
displayed list.
```

DOWNLOAD DASR/GASR ACKNOWLEDGMENT WITH HTTP_GET.EXE

1. To retrieve the test DASR acknowledgment, at the command prompt, type

```
http_get https://mads.pge.com/m/nph-mads.exe?[name of directory]/ack.csv  
ack.csv and press <enter>.
```

2. Verify the download of the file to the C:\destest directory on your PC by typing **dir** at the command prompt and pressing <enter>. If the file was successfully downloaded, it should appear as the last item of the displayed list.

Command line syntax

This section provides functional definitions for the syntax contained within the command lines used for setting the user ID and password and the transmission and retrieval of files as outlined in the previous section, “*Testing the Submittal of a DASR/GASR*”.

set http_user=user’s id

Sets the user ID on the DES server.

set http_password=user’s password

Sets the user’s password.

http_put

The command for uploading a file to the directory.

http_get

The command for downloading a file from the directory.

https://mads.pge.com

Address of the DES server.

/m/nph-mads.exe?

The CGI file containing the CGI script required to run the executable through the Internet.

[name of test directory]/

The ESP's/CTA's test user directory. Each ESP/CTA will receive a unique directory when a test account is established.

testfile1 testfile2

Within the command line “http_put https://mads.pge.com/m/nph-mads.exe?ESP01/good.csv good.csv”, the first “good.csv” represents testfile1 and the second represents testfile2. Testfile1 is the name of the file the ESP/CTA is uploading from its local PC and testfile2 is the name the file will have when it is uploaded to the DES server.

testfile3 testfile4

Within the command line “http_get https://mads.pge.com/m/nph-mads.exe?[name of test directory]/[file name].csv [file name].csv”, the first “[file name].csv” represents testfile3 and the second represents testfile4. Testfile3 is the name of the file the ESP/CTA is downloading from the DES server and testfile4 is the name the file will have when it is downloaded to the ESP's local PC.