

 Oracle Utilities Load Analysis 

Format Conventions

The formats for creating input files use the following conventions:

Element	Meaning
KEY word	Key words appear as a combination of upper- and lowercase letters. Typically, you need enter only the first three letters, which appear in uppercase.
{ }	Braces contain a set of choices, from which you must choose one.
[]	Brackets contain parameters that are optional.
	Vertical bars separate mutually exclusive choices.
<i>time1</i>	Variable names or other information that you provide appears in italics.
<u>DE</u> fault	Default values are underlined. The system will use these values if no others are provided.

Application

Name	Program Description
X110	Enhanced Direct Input (CLDB); See Oracle Utilities Load Analysis Load Data Management User's Guide
X120	Manual Entry (CLDB)
X170	AXDB Summary Reporter
X180	AXDB Update
X210	Cut Series Validation
X220	Invalid Series Validation (Key Generator)
X310	Load Data Editor
X320	Load Data Editor Syntax Scan
X370	Individual Customer Analysis (CLDB) (Analysis Bundle)
X400	Time Series Reporter
X410	Load Data Reporter (CLDB)
X420	Load Data Reporter (ALDB)
X430	Totalizing Reporter (Reporting Bundle)
X440	CLDB Summary Reporter
X460	ALDB Summary Reporter
X470	Late Cut Reporter (Reporting Bundle)
X480	Validation Statistics Reporter (Reporting Bundle)
X490	CLDB Cut Series Gap Reporter
X491	ALDB Cut Series Gap Reporter
X530	CLDB Cut Series Overlap Reporter
X531	ALDB Cut Series Overlap Reporter
X620	Load Data Transformation (CLDB)
X660	Load Data Retrieval (ALDB)
X670	Proxy Day Selection (Analysis Bundle)
X710	Statistical Package Interface (CLDB)
X720	Direct Output (CLDB)
X740	Direct Output (ALDB)
X760	Day Type Analysis (CLDB)
X770	Day Type Analysis (ALDB)
X810	CLDB Key Generator
X820	ALDB Key Generator
X910	Scan, Archive/Delete
Q91C	Copy Cuts
Q91D	Delete Cuts
Q91M	Move Cuts

X170 —AXDB Summary Reporter

Environment File—TGX17B

SElect {**D** | **S** | **T** | **V** | **ALL**}**X180 —AXDB Update**

Control File—TGX18A

customer-id, channel [,start-time] ,text-field

Control File for Record type V:

customer-id, channel, n (where n is an integer from 1 - 999)

Environment File—TGX18B

RECORD {**D** | **S** | **T** | **V**}**DATE****MODE** {**ADD** | **DEL** [**ALL**] | **REP**}

X210 —Cut Series Validation

Control File—TGX21A

customer-id, channel

Environment File—TGX21B

BLOck *n***DA**T*e* [*start-time*] [*stop-time*]**DIP** [*n* | 0] [*p%* | 50%]**EN**ERgy [**OFF** | *e1,e2* | 0.98,1.02]**EX**EMpt [*ValidationTest UOM1 UOM2 ... UOMn*]**HIGH** *n.n* [*i* | 0]**LOW** *n.n* [*i* | 0]**MET**er [*m1,m2* | 1,1]**MUL**tiplier [*n.n* | 1.0]**NNS** [*Non-normal status codes*]**NON**normal [*n* | 0] [**CON**]**OUT**age [*k* | 0] [**CON**]**RE**Port [**CUTs** | **SERies**]**SPI**ke [*n* | 0] [*p%* | 50%]**STA** [*status code list*]**TIME** [[*mm1*][*:ss1*],[*mm2*][*:ss2*] | 60,15]**WAR**ning **DES1** *name start length . . .DES5* *name start length* **STA**tus
*status-codes***ZER**o [*m* | *n%* | **OFF**]

X220 —Invalid Series Validation (Key Generator)

Control File—TGY11A (See X810)

* Note: Print statement must only produce customer-id, channel

X310 —Load Data Editor

Control File—TGX31A

Cut Commands—

CHange *key1* **TO** *key2***CO**py *key1* **TO** *key2***EG**Ap *custid, channel* [*start-time*] [*stop-time*]**ER**ase *key***KEY** *customer-id, channel(s), start-time* [**ORIGINAL**]**NE**W *custid channel start stop* **FROM** *custid channel start*
[*meter start*] [*meter stop*]**RE**Store *key***SPL**it *key AT time* [**NEW**key *customer-id* [,*channel*]]**MET**er *value* [**NEW**key *customer-id* [,*channel*]]

†Correction Commands—

ADdition {*time1* | **START**} {*time2* | **STOP**} *z***AV**erage [*start* | **APP**end] [*stop* | #*ints*] [**I** | **Q**] [**AW** | **AD**]
[**W1** *Start* | **3**] [**W2** *Stop* | **3**] [**Q** [*q* | **8**]] [**S** [*s* | **J**]]**CAL**culate**DE**lete {*time1* | **START**} {*time2* | **STOP** | **DO** *n*}**INS**ert {*time1* | **APP**end} {*time2* | **DO** *n*} {**Value** *z* | **From** *key AT time3*}**INT**erpolate *time1* {*time2* | **DO** *n*} [**Q** [*q* | **8**]] [**S** [*s* | **J**]]**MOD**ify *time* [**Status** *s*] **Value** *z1* [*z2 z3... z29*]**MUL**tiply {*time1* | **START**} {*time2* | **STOP**} *n***OVE**rwrite *time1* {*time2* | **DO** *n*} {**Value** *z* | **Status** *s* | **Value** *z* **Status** *s*
| **From** *key AT time3*}**PRO**rate **ST**atus [*s* | *] [**MAX** *x* | **32760**] [**MIN** *n* | **0**] [**MET** *ngy*]**REA**ding *time r* [#*dials* [, #*decimals*]]**RE**Mark [*remark*]**SE**T *field value***SMO**oth [**HIGH** | **LOW**] [**Value** *z* | **0**] [**DO** *n* | **1**] [**Status** *s* | **K**]**ST**atus {*old_sta* | *} *new_sta* **DATE** {*start* [*stop*]}**INT** {*low_int* [**TO** *high_int*]}

†Note—Must be preceded by 'KEY' Cut Command

(Continued next page)

X310 —Load Data Editor (Continued)

SET UOM
SET DESCRIPTOR (DES)
SET SECONDS-PER-INTERVAL (SPI)
SET METER-MULTIPLIER *mmult*
SET METER-OFFSET *moffset*
SET METER-START *time*
SET METER-STOP *time*
SET PULSE-MULTIPLIER *pmult*
SET PULSE-OFFSET *poffset*
SET TIME-ZONE-STANDARD-NAME (TZS|TZSN) *tzsn*
SET ARCHIVE {YES | ON} or {NO | OFF}
SET MERGE {YES | ON} or {NO | OFF}
SET POPULATION *popln*
SET WEIGHT *weight*

Environment File—TGX31B

AUDit [OFF | ON]
EXEcute [OFF | ON]
PRInt [ECONomize | FULL]
MERge [YES | NO]
GRA

X320 —Load Data Editor Syntax Scan

Control File—TGX31A (See X310, Control File)

Environment File—TGX31B

AUDit [OFF | ON]
EXEcute [OFF | ON]
PRInt [ECONomize | FULL]

X370 — Individual Customer Analysis (CLDB) (Analysis Bundle)

(See Y370)

X400— Time Series Reporter

Control File—TGX40A

KEY *customer-id, channel* [,*start-date*] [,**SUM** | ,**NOSum**]
[,**PEAk** | ,**NOPeak**] [,**CLAss**] [,**DEC** (*n*) | ,**DEC** (*2*)] [**CHI1** '*head1*']
[**CH2** '*head2*']

REPort *report-name*

TLn [*title-line* | **NULL** | **BLANK**]

Environment File—TGX40B

AGGgregate [*n* | **0**]

DATE *start-date stop-date*

FILE [**YES** [**BLOCK** | **NOblock**] | **NO**]

X410—Load Data Reporter (CLDB)

Control File—TGX41A

customer-id, channel [,*start-time*] [,ENERgy]
 [SCHedule [n | 0]] [,AGGregate [n | 0]]
 [,ROLLing [n | 3600 ['q' | '8']]]
 [,PEAk][,MINimum][,DAILY][,SUMmary]

Environment File—TGX41B

ACTive
AGGregate [n | 3600]
DAILY
DATE [*start-time*] [*stop-time*]
DEMAND [SPReadsheet | NOSpreadsheet] [NOReport | REPort]
ENERgy [SPReadsheet | NOSpreadsheet] [NOReport | REPort]
GRA
INActive
MERge [YES | NO | EXClude]
MINimum
NUMBER [n | 10]
ORiginal [INActive | Active]
PEAk
ROLLing [n | 3600 ['q' | '8']]
SCHedule [t | 0]
RUN STA <un-delimited list of status codes>
RUN INT [<value> | <lower> TO <upper>]
RUN INS <interval value> <status code>
SEASON [s | 0 [,PRInt | NOPrint]]
SEParate
SOURce [CLDB [BOTH] [2]]
SUBset [YES | NO]
SUMmary
XML

Holiday File—TGY31C

mm/dd/yy

Time-of-Use Schedule File—TGY31D

sch# period day-list time-range [comment]

Season Schedule File—TGY31E

season-sch# season# tou-sch# date-range [season name]

X420 —Load Data Reporter (ALDB) (See X410)

SOURce [ALDB [2]]

X430 —Totalizing Reporter (Reporting Bundle)

Control File—TGX43A

ACCumulate [*subtitle*]

AGGregate [*n* | 3600]

BLOCK [*block title*]

DATE *start-time stop-time* [PAGE]

END '*label*' [*customer-id channel*] [SKIP *n* | PAGE]

KEY *customer-id channel* [SUB | ADD] [MULT [*n.m* | 1.0]] ['*comment*']

MERGE [YES | NO]

REMark ['*remark*']

SCHEDULE [*n* | 0]

TLn [*title* | BLANK | NULL]

Environment File—TGX43B

GRA

HIGhest [*n* | 3] [AVERage | AVG] [CPK]]

QUALity ['*q*' | '8']

REPort [SUMmary | NONe | ALL]

SAVE [REPlace] [ARChive]

STATus [YES | ALL | NO]

STOP [NO | YES]

UOMcheck {NO | YES. [METHod | LEGacy]} or {OFF | ON}

VALid [NO | YES]

Holiday File—TGX43C

mm/dd/yy

Time-of-use Schedule File—TGX43D

sch# period day-list time-range [comment]

X440 —CLDB Summary Reporter

Control File—TGX44A (optional)

customer-id, channel

Environment File—TGX44B (optional)

DATE [*start-time stop-time* | **ALL**]**DIPs****FACTOR****HOURS****MAXimum**[**NOedit** | **EDIT**]**OUTages****SELECT** [**KEY** | **ALL**]**SOURCE** {CLDB}**SPIkes****X460 —ALDB Summary Reporter (See X440)****SOURCE** {ALDB}**X470 —Late Cut Reporter (Reporting Bundle)**

Control File—TGX47A

customer-id, channel

Environment File—TGX47B

DATE *cut-off time***SELECT** [**ALL** | **KEY**]**X480 —Validation Statistics Reporter (Reporting Bundle)**

Control File – TGX48A

customer-id, channel, start-time

X490 —CLDB Cut Series Gap Reporter

Control File – TGX49A (optional)

customer-id, channel

Environment File – TGX49B (optional)

DATE [*start-time stop time* | **ALL**]**PRInt** [**GAP** | **ALL**]**QUALity** [*'q'* | *'8'*]**SElect** [**KEY** | **ALL**]**SOURce** {**CLDB**}**TITle** *optional-user-title***X491 —ALDB Cut Series Gap Reporter (See X490)****SOURce** {**ALDB**}

X530 —CLDB Cut Series Overlap Reporter

Control File – TGX53A (optional)

customer-id, channel

Environment File – TGX53B (optional)

DATE [*start-time stop time* | **ALL**]**OUTPUT** [**CSV** | **FIX**]**PRINT** [**OVERlaps** | **ALL**]**SELECT** [**KEY** | **ALL**]**SOURCE** {**CLDB**}**TITLE** *optional-user-title***TOLERANCE** *number of overlapping intervals to tolerate***X531 —ALDB Cut Series Overlap Reporter (See X530)****SOURCE** {**ALDB**}

X620 —Load Data Transformation (CLDB)

See Y620

X660 —Load Data Retrieval (ALDB)

Control File—TGX66A

customer-id, channel, [start-time]

Environment File—TGX66B

DATE *[start-time stop-time | ALL | ALL stop-time | start-time]*

FLAgS [**NO**Reset | **RE**Set]

SELect [**ALL** | **KEY**]

X670 —Proxy Day Selection (Analysis Bundle)

Environment File—TGX67B

DATE *start-time stop-time*

DAYtype [**DT** | **DOW** | **ANY**]

DEG #degrees [**AVG** | **MAX**] [**MIS**sing #hours]

HOLiday

INEligible

KEY *custid, channel, start-time*

MAGnitude [*weight*]

MERge [**YES** | **NO**]

NUM *n*

OUTput [**CSV** | **LSE** | **XML** | **GR**Aph]

PEAk [**MIN**utes]

PROxy *custid, channel*

SEAson *s*

SHApe [*weight*]

TEMp *skey [pkey]*

Holiday File—TGY31C

mm/dd/yy

Season Schedule File—TGY31E

Season-sch# season# tou-sch# start stop [comment]

X710 —Statistical Package Interface (CLDB)

Control File—TGY71A

custid, channel [,start-time]

Environment File—TGY71B

AGGregate [*n* | **3600**]

DATE *start-date stop-date*

MERge [**YES** | **NO**]

QUALity [*'q'* | *'8'*]

SOURce {CLDB}

X720 —Direct Output (CLDB)

Control File—TGY72A

customer-id, channel [,start-time][,stop-time][,INActive | ,ACTIVE] [,CLAss]

Environment File—TGY72B

24Hradj [YES | **NO**]**AGG**gregate [*n* | 0]**CDAt** start-date stop-date**CSV****DAILY** [SEndout [*h* | 0]] [**BIN**ary | CHAracter [CUSTid *c*] [MULtiplier *m*] [**FOR** *x.y* | **FOR 7.3**] [**COM**mas | **BL**Anks] [**HE**ader | **NO**Header] [**TIME**zone *t*] [**DATE** date format]]**DATE** start-date stop-date**INP****LSE****MER**ge [YES | **NO** | EXClude]**ONE**record**QUAL**ity [*'q'* | '8']**ROLL**ing [*n* | 3600 [*'q'* | '8']]**SOUR**ce [CLDB [**BOTH**] [2] | ALDB [2]]**STAT**us [NO | **YES**]**XML****X740 —Direct Output (ALDB)**

(See X720)

X760 —Day Type Analysis (CLDB)

(See Y760)

X770 —Day Type Analysis (ALDB)

(See Y770)

X810 —CLDB Key Generator

Control File—TGX81A

Test Statements:

[label:] [test-clause] [true-clause] [false-clause]

Test Clause—

variable [relation] test value[[relation] test value] . . .

True Clause—

T ([**PRINT** *n*] [**COUNT** *m*] [*label* | ,**STOP** | ,**NEXT** | , continue])

False Clause—

F ([**PRINT** *n*] [**COUNT** *m*] [*label* | ,**STOP** | ,NEXT])

Format Statements—

n: {[variable[*field spec*]] [*literal*] [**BLANK**(*n*)] [**PAGE**] [**SKIP**(*n*)]
[**TRIM** (*format-variable* | *literal*)]}

End Statement—

END: {[variable[*field spec*]] [*literal*] [**BLANK**(*n*)] [**PAGE**] [**SKIP**(*n*)]
[**TRIM** (*format-variable* | *literal*)]}

Counter Variable—

COUNT1—COUNT999

Comment—

/*comment text*/

Substring—

SUBSTRing (*variable, start-position, length*)

Environment File—TGX81A (optional)

CENtury [**Yes** | **No**]

PRInt [**ECONomize** | **FULL**]

TIME [**STANDARD** | **ISO8601**]

TRAILS

X820 —ALDB Key Generator

(See X810)

X910 —Scan, Archive/Delete

Control File—TGX91A (optional)

customer-id, channel

Environment File—TGX91B

ARChive [**NOR**mal | **FORCED**]**RETain** [*mm/dd/yy*[-*hh:mm:ss*] | *n* | 1]**SElect** [**KEY** | **ALL**]

Q91C — Copy Cuts

Control File—TGQ91CA
customer-id, channel [,start-time]
Environment File—TGQ91CB
RePLace
REPort [EXCeptions | **ALL**]
KEYlist
ALL

Q91D — Delete Cuts

Control File—TGQ91DA
customer-id, channel [,start-time]
Environment File—TGQ91DB
RePLace
REPort [EXCeptions | **ALL**]
KEYlist

Q91M —Move Cuts

Control File—TGQ91MA
customer-id, channel [,start-time]
Environment File—TGQ91MB
RePLace
REPort [EXCeptions | **ALL**]
KEYlist

Procedure

Name	Procedure Description
Y130	Enhanced Direct Input (ELDB); See Oracle Utilities Load Analysis Load Data Management User's Guide
Y131	Enhanced Production Input (ELDB)
Y220	Manual Entry (ELDB)
Y230	Billed Energy
Y240	Load Data Extraction
Y310	Standard Load Analysis
Y320	Aggregate Load Analysis
Y330	Ratio Analysis
Y340	Coincident Peak Analysis (Analysis Bundle)
Y350	Domains Analysis Mean Per Unit (Analysis Bundle)
Y360	Domains Analysis Ratio (Analysis Bundle)
Y370	Individual Customer Analysis (ELDB) (Analysis Bundle)
Y380	100% Sample Analysis
Y410	Time Series Reporter
Y420	Load Data Reporter (ELDB)
Y430	Load Data Reporter (SLDB)
Y440	ELDB Summary Reporter
Y450	Totalizing Reporter (Reporting Bundle)
Y460	SLDB Summary Reporter
Y490	ELDB Cut Series Gap Reporter
Y491	SLDB Cut Series Gap Reporter
Y530	ELDB Cut Series Overlap Reporter
Y531	SLDB Cut Series Overlap Reporter
Y620	Load Data Transformation
Y630	Load Data Editor (ELDB)
Y710	Statistical Package Interface (ELDB)
Y720	Direct Output (ELDB)
Y740	Direct Output (SLDB)
Y760	Day Type Analysis (ELDB)
Y770	Day Type Analysis (SLDB)
Y780	Statistic Extraction
Y810	ELDB Key Generator
Y820	SLDB Key Generator
Y910	Archive/Delete
Y960	SLDB Retrieval

Y130— Enhanced Direct Input (ELDB)

Load Data File—TGX11E

First Header Record —

sort-code, customer-id, channel, start-time, stop-time, DST participant flag,
invalid record flag

Second Header Record —

sort-code, meter-start-reading, meter-stop-reading, meter multiplier, meter
offset, pulse multiplier, pulse offset, seconds per interval (SPI), LODE-
STAR unit of measure, basic unit code, time zones west of GMT, popula-
tion, weight

Third Header Record —

sort-code, customer descriptor

Fourth Header Record —

sort-code, timestamp, origin

Data Record(s) —

sort-code, load data values, status code for each interval in cut, interval start
time

Environment File —TGX11A

ENHanced [**WRItE** | **NOWrite**]

FULIntervals [**CODe** | **ADJ**] [**DESc** | **NODesc**]

LOAd [**REPlace**][**KEY**][**24Hradj**][**IDLength nm**]

UOM *From-UOM-code To-UOM-code*

Y131— Enhanced Production Input (ELDB)

*Information for Y131 is the same as for Y130, except that interval data input files
must reside on the network server.*

Y220— Manual Entry (ELDB)

Control File—TGY22A

NOTE: Commands must be entered in the following order: KEY, SET, DATA, STATUS.

KEY *customer-id, channel, start-time*
SET PULSE-MULT [*pm* | 0]
SET PULSE-OFFSET [*po* | 0.0]
SET UOM [*ci* | 01]
SET TIME-ZONE [*tz* | -1]
SET SECONDS-PER-INTERVAL [*spi* | 900]
SET POPULATION [*pop* | 0]
SET WEIGHT [*wt* | 0]
SET METER-MULT [*mm* | 0]
SET METER-OFFSET [*mo* | 0.0]
SET METER-START [*mstart* | 0.0]
SET METER-STOP [*mstop* | 0.0]
SET DES [*descriptor*]
SET DES1 [*descriptor1*]
SET DES2 [*descriptor2*]
DATA *interval data*
STATUS *status codes*

Y230— Billed Energy

Control File—TGY23A

Individual Customer Control File records:*Standard Analysis*

[±] customer-id, channel-number [{ ± } chan1 [{ ± } chan2...]], stratum-number

Ratio or Coincident Peak Analysis[±] customer-id, channel-number [{ ± } chan1 [{ ± } chan2...]], stratum-number
[, cycle-number]*Domains Mean-per-unit Analysis*

[±] customer-id, channel-number [{ ± } chan1 [{ ± } chan2...]], stratum-number [,domain]

Domains Ratio Analysis[±] customer-id, channel-number [{ ± } chan1 [{ ± } chan2...]], stratum-number,
domain [,cycle-number]*100% Sample Analysis*

[±] customer-id, channel-number [{ ± } chan1 [{ ± } chan2...]]

Block Control File records:*Standard Analysis Type*

BLOck new-customer-id, new-channel-number, stratum-number

Ratio/Coincident Peak Analysis Type

BLOck new-customer-id, new-channel-number, stratum-number[, cycle-number]

[±] customer-id, channel-number [{ ± } chan1 [{ ± } chan2...]], stratum-number

Domains Mean-per-unit Analysis Type

BLOck new-customer-id, new-channel-number, stratum-number [, domain]

Domains Ratio Analysis Type

BLOck new-customer-id, new-channel-number, stratum-number, domain [, cycle-number]

100% Sample Analysis Type

BLOck new-customer-id, new-channel-number

End Control File record

END

Environment File—TGY23B

AGGgregate [300 | 900 | 1800 | 3600]**DATE** mm/dd/yy mm/dd/yy**LENG**th [n | 40]**PRO**rate [YES | **NO**]**REPL**ace [YES | **NO**]**QUAL**ity ['s' | 'g']**TYPE** [MPU | 100% | DMPu | DRATio | **RATio**] [**NO**Calculate | **CAL**culate]

Cycle File—TGY23E

cycle-number, start-date, stop-date

Y240—Load Data Extraction

Control File—TGY24A

customer-id, channel [,*start-time* | ,*start-date,stop-date*]

Environment File—TGY24B

AGGgregate [*n* | 3600]**DATE** *start-date stop-date***DRO**p *d%***PR**Int [**ECON**omize | FULL]**RE**Port [**IN**Complete | ALL][**TR**ial][**CSV**]**SOU**rce [**AL**DB [2] | **CL**DB | **BOTH** [2]]

Y310—Standard Load Analysis

Control File—TGY31A

customer-id chan1 [{±}chan2 [{±}chan3...[{±}chann]]]
 [stratum-number | 1]

Environment File - TGY31B

AGGgregate [*n* | 3600]**ALPha** [5% | 10%]**ASSign** [**FIXed** [*comment* | **KWH**] | **FLOat** [LF | KW | **KWH**]]**BILLing** [YES | NO]**COMB**ined total-population-billed-energy**DATE** *start-date stop-date***DROP** [*d%* | 100%]**GRA****GROU**p *title***KEY** [*key* | **STAR**]**MIN**imum [0 | **ZERo** | **NONZero**]**PEAk** {*peak-time* | *custid channel*} [*descriptor*]**PRO**rate [YES | **NO**]**QUAL**ity [‘*q*’ | ‘*g*’]

REPort [**PRE**liminary | **NO**strata | **NOE**valuation | **COM**plete]
 [AVERage][PEAk][MINimum][CD][MCD][NCD][ENERgy] [FAC-
 tor][DAIly][ICS][ENTire][PREcision][STRatum]

ROLLing *n* [‘*q*’ | ‘*g*’]**SCH**edule [*t* | 0]**SEAs**on [*s* | 0] [,NOPrint | ,**PRInt**]**SKI**p

STRata [*stratum-number* | 1 [*boundary* | **IN**finity [*population* | 0
 [*weight* | 0-0]]]]

TOTALpopulation *n***WRITe** [NO | **NO**strata | **COM**plete]

[AVERage][PEAk][MINimum][CD][MCD][NCD][ENERgy]
 [FACtor][ENTire]

Holiday File—TGY31C

mm/dd/yy

Time-of-Use Schedule File—TGY31D

sch#period day-list time-range [comment]

Season Schedule File—TGY31E

season-sch# season# tou-sch# date-range [comment]

User Specified Days File—TGY31F

date 1 ‘label1’ ‘label2’

date 2

-
-
-

Y320—Aggregate Load Analysis

Control File—TGY32A

KEY *output-key***GRoup** *title***GRoup** *title***COMbine** *component-key1* [*,type*] [*,strata1* | .0] [*,weight1* | .0.0] [*,factor1* | .1.0]]]**COMbine** *component-key2* [*,type*] [*,strata2* | .0] [*,weight2* | .0.0] [*,factor2* | .1.0]]]**COMbine** *component-keyN* [*,type*] [*,strataN* | .0] [*,weightN* | .0.0] [*,factorN* | .1.0]]]**100%**—*component-key N+1* [*,factorN+1* | .1.0]**END**

Environment File—TGY32B

ALPha[5% | 10%]**DAte** *start-date***PEAk** {*peak-time* | *custid channel*} [*descriptor*]**REPort** [**NO**Evaluation | **COM**plete] [**EN**Tire][**AVE**rage][**PEAk**][**MIN**imum][**NCD**][**EN**ergy] [**FA**ctor]**SCH**edule [*t* | 0]**SEAs**on [*s* | 0] [**NO**Print | **PR**Int]**WR**Ite [**NO** | **COM**plete][**EN**Tire][**AVE**rage][**PEAk**][**MIN**imum][**NCD**][**EN**ergy][**FA**ctor]

Y330—Ratio Analysis

Control File—TGY33A

customer-id chan1 [{±} *chan2* [{±} *chan3*... [{±} *chann*]]]
 [*stratum-number* | 1] [*billed-energy*]

Environment File—TGY33B

AGGgregate [*n* | 3600]**ALPha** [5% | 10%]**ASSign** [**FIXed** [*comment* | **KWH**] | **FLOat** [LF | KW | **KWH**]**BIL**ling [YES | **NO**]**DA**T*e* *start-date stop-date***DR**Op [*d%* | 100%]**COM**bined *total-population-billed-energy***GRA****GRO**up *title***KEY** [*key* | **STAR**]**MIN**imum [0 | **ZERo** | **NONZero**]**PEAK** {*peak-time* | *custid channel*} [*descriptor*]**PR**Orate [YES | **NO**]**QUA**lity [‘*q*’ | ‘g’]**RE**Port [**PRE**liminary | **NO**Strata | **NO**Evaluation | **COM**plete][**CMB**][**AVER**age][**PEAK**][**MIN**imum] [CD] [MCD] [NCD][**EN**Ergy] [**BIL**l] [**FA**Ctor] [**DA**ily] [**ICS**] [**EN**Tire] [**PRE**cision]**ROL**ling *n* [‘*q*’ | ‘g’]**SCH**edule [*t* | 0]**SE**Ason [*s* | 0] [,**NO**Print | **PR**Int]**SKI**p**STR**ata [*stratum-number* | 1] [*strata-billed-energy* [*boundary* | **IN**finity[*population* | 0 [*weight* | 0-0]]]]**TOT**alpopulation *n***WR**ite [**NO** | **NO**Strata | **COM**plete][**AVER**age][**PEAK**][**MIN**imum][CD][MCD][NCD][**EN**Ergy][**FA**Ctor][**EN**Tire]

Holiday File—TGY33C

mm/dd/yy

Time-of-Use Schedule File—TGY33A

sch#period day-list time-range [*comment*]

Season Schedule File—TGY33E

season-sch# season# tou-sch# date-range [*comment*]

User Specified Days File—TGY33F

date 1 ‘label1’ ‘label2’

date 2

-
-

Y340—Coincident Peak Analysis (Analysis Bundle)

Control File—TGY34A

customer-id chan1 [{±} *chan2* [{±} *chan3*...[{±} *chann*]]]
 [*stratum-number*] [*customer-billed-energy*][*period-number*]

Environment File—TGY34B

BREakpoints *brkpt1 brkpt2... brkptN***BI**LLing [NO | YES]**DA**T*e* *start-date stop-date***DR**Op [*d%* | 100%]**GR**Op *title of customer class***PE**Ak1 *peak-time, [population billed energy] [d%] [w#]***PE**Ak2 *peak-time, [population billed energy] [d%] [w#]*

...

PEAkn *peak-time, [population billed energy] [d%] [w#]***PER**iod *title of analysis period***QU**ALity [‘*q*’ | ‘8’]**RE**Port [NO*Strata* | NO*Varcov* | COMplete]**SO**U*rc*e [BOTH | ELDB | ALDB]**STR**ata *Strata-number peak-period-number [bound | INF [population | 0
[weight | 0.0]]]***TY**Pe [MPU | RATio | BOTh]

Y350—Domains Analysis Mean Per Unit (Analysis Bundle)

Control File—TGY35A

customer-id chan1 [{±}chan2 [{±}chan3...[{±}chan n]]]
strata-number domain

Environment File—TGY35B

AGGgregate [*n* | 3600]**ALP**ha [5% | 1%]**ASS**ign [**FIX**ed [*comment* | **KWH**]]**BILL**ing [YES | NO]**CL**ass**COM**bined [population-billed-energy]**DATE** *start-date stop-date***DOM**ain *n* [*title*]**DRO**p [*d*% | 100%]**ENER**gy **domain-number** [domain billed energy | 0] [domain population]**GRA****GRO**up *title***KEY** [*key* | **STAR**]**MIN**imum [0 | **ZER**o | **NONZero**]**PEAK** *peak-time***POP**ulation *stratum-number domain-number domain-population-in-stratum***PRO**rate [YES | **NO**]**QUAL**ity [*'q'* | *'g'*]

REport [**PRE**liminary | **NO**strata | **NO**evaluation | **COM**plete]
 [AVERage][PEAk][MINimum][CD][MCD]
 ([NCD][ENERgy) [FACTOR][DAILY][ICS][ENTire]
 [PREcision][STRatum]

ROLling *n* [*'q'* | *'g'*]**SCH**edule [*t* | 0]**SEA**son [*s* | 0] [,NOPrint | ,**PR**int]

STRata [*stratum-number* | 1] [*boundary* | **IN**finity] [*population* | 0
 [*weight* | 0-0]]]]

TOTALpopulation *n***WR**ite [NO | **NO**strata | **COM**plete]

[AVERage][PEAk][MINimum][CD][MCD][NCD][ENERgy]
 [FACTOR][ENTire]

Holiday File—TGY31C

mm/dd/yy

Time-of-Use Schedule File—TGY31D

sch# period day-list time-range [comment]

Season Schedule File—TGY31E

season-sch# season# tou-sch# date-range [comment]

User Specified Days File—TGY31F

date 1 'label1' 'label2'

date 2

Y360— Domains Analysis Ratio (Analysis Bundle)

Control File—TGY36A

customer-id chan1 [{±}chan2 [{±}chan3...[{±}chann]]]
stratum-number [domain][customer-billed-energy]

Environment File—TGY36B

AGGgregate [*n* | 3600]**ALPha** [5% | n%]**ASSign** [**FIXed** [*comment* | **KWH**]]**BIL**ling [**YES** | **NO**]**CL**Ass**COM**bined [*population-billed-energy*]**DATE** *start-date stop-date***DOM**ain *n* [*title*]**DROp** [*d*% | 100%]**ENERgy** *n* [*domain billed energy* | 0] [*domain population*]**GRA****GRO**up *title***KEY** [*key* | **STAR**]**MIN**imum [0 | **ZERo** | **NONZero**]**PEAK** *peak-time***POP**ulation *stratum-number domain-number domain-population-in-stratum***PRO**rate [**YES** | **NO**]**QUAL**ity [*'q'* | *'g'*]**RE**Port [**PRE**liminary | **NO**evaluation | **COM**plete][**A**verage][**PEAK**][**MIN**imum][**CD**][**MCD**][**NCD**][**E**nergy][**FAC**tor][**DAI**ly][**ICS**][**ENT**ire][**PRE**cision]**ROL**ling *n* [*'q'* | *'g'*]**SCH**edule [*t* | 0]**SEA**son [*s* | 0] [,**NO**Print | **PR**int]**STR**ata [*stratum-number* | 1 [*strata-billed-energy* [*boundary* | **IN**finity
[*population* | 0 [weight | 0-0]]]]]**TOT**alpopulation *n***WR**Ite [**NO** | **COM**plete [**A**verage][**PEAK**][**MIN**imum][**CD**][**MCD**][**NCD**][**E**nergy][**FAC**tor][**ENT**ire]]

Holiday File—TGY31C

mm/dd/yy

Time-of-Use Schedule File—TGY31D

sch# period day-list time-range [comment]

Season Schedule File—TGY31E

season-sch# season# tou-sch# date-range [comment]

User Specified Days File—TGY31F

date 1 'label1' 'label2'

date 2

-
-
-

Y370—Individual Customer Analysis (ELDB) (Analysis Bundle)

Control File—TGY37A

customer-id chan1 [{±}chan2 [{±}chan3...[{±}chann]]]
[start-time | billing-cycle] [SCHEDULE [DEMAND | t | 0] | SEASON [s | 0]
*[*comment]*

Environment File—TGY37B

24H [YES | **NO**]
AGGgregate [*n* | 0]
AVGreport [*Avg1* [,*Avg2* [,*Avg3* ...[,*Avg8*]]] | **NO** | **COM**plete]
DAte [**CUT** | *start-time stop-time* [MONthly [SUMmary]]]
GRoup *title*
MERge [YES | **NO**]
PAGinate [**NO** | **YES**]
PEAK *peak-time*
PROrate [YES | **NO**]
QUALity [‘*q*’ | ‘*g*’]
ROLLing *n* [‘*q*’ | ‘*g*’]
SCHedule [DEMAND | *t* | 0]
SEASON [*s* | 0]
SKIp
TOUreport [**NO** | **YES**]
WRite [TOU | AVERAGE | **NO** | **COM**plete] [SEParate]* [HEAder]
 * SEP option is not valid when NO is specified.

Demand Period File—TGY37E

PERiod *n* [*description*]
date start-time1 stop-time1 start-timex stop-timex...
END *description*

Holiday File—TGY31C

mm/dd/yy

Time-of-Use Schedule File—TGY31D

sch# period day-list time-range [comment]

Season Schedule File—TGY31E

season-sch# season# tou-sch# season start-time season stop-time season-
name

Billing cycle File—TGY23E

cycle# start-time stop-time

Y380—100% Sample Analysis

Control File—TGY38A

customer-id chan1 [{±}chan2 [{±}chan3...[{±}chann]]]

Environment File—TGY38B

AGGgregate [*n* | 3600]**DATE** *start-date stop-date***GRA****GR**oup *title***KEY** [*key* | STAR]**MIN**imum [0 | ZERo | NONZero]**PEAk** {*peak-time* | *custid channel*} [*descriptor*]**REPort** [PREliminary | NOevaluation | NOstrata | COMplete][Average][PEak][MINimum][CD][MCD][NCD][ENergy][FActor][DAily][ICS][ENtire]**RO**lling *n***SCH**edule [*t* | Q]**SE**Ason [*s* | Q]**SKI**p**STR**ata *stratum-number* [*comment*]**WR**ite [NO | NOstrata | COMplete] [Average][PEak][MINimum][CD][MCD][NCD][ENergy][FActor][ENtire]

Holiday File—TGY31C

mm/dd/yy

Time-of-Use Schedule File—TGY31D

sch#period day-list time-range [*comment*]

Season Schedule File—TGY31E

season-sch# season# tou-sch# date-range [*comment*]

User Specified Days File—TGY31F

date 1 'label1' 'label2'

date 2

-
-
-

Y410 Time Series Reporter

Control File—TGY41A

REPort *report-name***TL** *n* [*title-line* | NULL | BLANK]**KEY** *customer-id, channel* [,*start-date*] [,SUM | NOSum][,PEAK | NOPeak] [,CLAss] [,DEC(*n*) | DEC(2)] [CH1 '*head1*'] [CH2 '*head2*']

Environment File—TGY41B

DATE *start-date stop-date***AGG**gregate [*n* | 0]**FILE** [NO | YES [BLOCK | NOBlock] [HEAder]]

Y420— Load Data Reporter (ELDB)

Control File—TGX41A

customer-id, channel [*start-time*] [**E**NERgy] [**D**EMand]
 [**S**CHedule [*n* | 0]] [**A**GGregate [*n* | 0]]
 [**R**OLLing [*n* | 3600] [*'q'* | *'g'*]]]
 [**P**EAk][**M**INimum][**D**AILY][**S**UMmary]

Environment File—TGX41B

ACTIVE* **AGG**regate [*n* | 0]**DAI**ly**DA**TE [*start-time*] [*stop-time*]**DE**Mand [**S**PReadsheet | **NOS**preadsheet] [**N**OReport | **REP**ort]**EN**ERgy [**S**PReadsheet | **NOS**preadsheet] [**N**OReport | **REP**ort]**I**NActive**M**INimum**NU**Mber [10 | 50]**OR**iginal**PE**AK [*n* | 10]* **R**OLLing [*n* | 3600] [*'q'* | *'g'*]]* **S**UBset [**Y**ES | **NO**]**S**CHedule [*t* | 0]**SE**Ason [*s* | 0] [**P**RInt | **NO**Print]]**SE**PARate [**P**EAk] [**M**INimum]**SO**URce [**ELDB** [**B**OTH]][2]]**S**UMmary**X**ML

* Use for customer load data records only.

Holiday File—TGY31C

mm/dd/yy

Time-of-Use Schedule File—TGY31D

sch# period day-list time-range [comment]

Season Schedule—TGY31E

season-sch# season# tou-sch# date-range [season name]

Y430—Load Data Reporter (SLDB) (See Y420)

SOURCE [**SLDB** [2]]

Y440—ELDB Summary Reporter

Control File—TGY44A

customer-id, channel

Environment File—TGY44B

DATE [*start-time stop-time* | **ALL**]

SELEct [**KEY** | **ALL**]

SOURCE **ELDB**

Y450— Totalizing Reporter (Optional Extension)

Control File—TGX43A

ACCumulate [*subtitle*]**AGGgregate** [*n* | 3600]**BLOck** [*block title*]**DATE** *start-time stop-time* [**PAGE**]**REMark** [*'remark'*]**SCHedule** [*n* | 0]**TL** *n* [*title* | **BLANK** | **NULL**]**KEY** *customer-id channel* [**SUB** | **ADD**] [**MULT** [*nm* | 1.0]] [*'remark'*]**KEY...**

-
-
-

END *'label'* [*customer-id channel*] [**SKI***p* *n* | **PAGE**]

Environment File—TGX43B

HIGHest [*n* | 3 [**AVERage** | **AVG**] [**CPK**]]**QUALity** [*'q'* | *'g'*]**REPort** [**SUMMARY** | **NONE** | **ALL**]**SAVe** [**REPlace**] [**ARCHive**]**STATus** [**YES** | **ALL** | **NO**]**STOp** [**NO** | **YES**]**UOMcheck** [**NO** | **YES**] | [**OFF** | **ON**]**VALid** [**NO** | **YES**]**XML**

Holiday File—TGX43C

mm/dd/yy

Time-of-Use Schedule File—TGX43D

sch#period day-list time-range [*comment*]

Y460—SLDB Summary Reporter (See Y440)

SOURce { **SLDB** }

Y490—ELDB Cut Series Gap Reporter

Control File—TGX49A (optional)

customer-id, channel

Environment File—TGX49B (optional)

DATE [*start-time stop-time* | **ALL**]

SElect [**KEY** | **ALL**]

PRInt [**GAP** | **ALL**]

SOURce {**ELDB**} [**STAtistics**]

QUALity [*'q'* | *'g'*]

TITLe *optional-user-title*

Y491—SLDB Cut Series Gap Reporter (See Y490)

SOURce {**SLDB**} [**STAtistics**]

Y530— ELDB Cut Series Overlap Reporter

Control File—TGX53A (optional)

customer-id, channel

Environment File—TGX53B (optional)

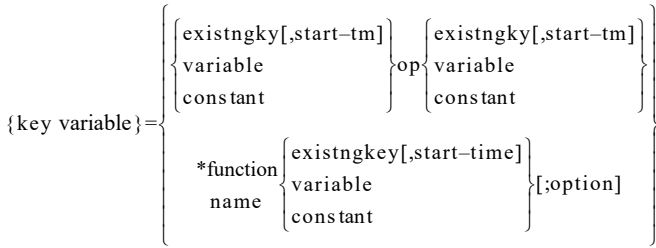
DATE [*start-time stop-time* | **ALL**]**SElect** [**KEY** | **ALL**]**PRInt** [**OVERlaps** | **ALL**]**SOURce** {**ELDB**} [**STAtistics**]**TITLe** *optional-user-title***Y531— SLDB Cut Series Overlap Reporter (See Y530)****SOURce** {**SLDB**} [**STAtistics**]

Y620— Load Data Transformation (ELDB)

Control File—TGY62A

BLOck

BDAte [*block-start-time*] [*block-stop-time*]



*See Transformation Functions, next page.

Environment File—TGY62B

AGGgregate [*n* | 3600]

DATE *start-time stop-time*

MERge [**YES** | **NO** | **EXClude**]

QUALity [*'q'* | *'8'*]

STOP [**NO** | **IGNore**] | **YES**]

TRAl

UOM *default UOM code*

GRaph

XML

Holiday File—TGY31C

mm/dd/yy

Time-of-Use Schedule File—TGY31D

sch# period day-list time-range [comment]

Transformation Functions (**Note:** There must be one blank preceding each equal sign (=) and one blank following the equal sign.)

Function Format

$$\text{CLAss} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{CLAss} (\text{sample-level analysis-statistic})$$

$$\text{DES} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{DES}(\text{descriptor})$$

$$\text{DURation} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{DURation} \left(\left(\begin{array}{l} \text{exstngkey[,start]} \\ \text{variable} \\ \text{constant} \end{array} \right) \right)$$

$$\text{KVA} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{KVA} \left(\left(\begin{array}{l} \text{key[,start]} \\ \text{variable} \end{array} \right) \left(\begin{array}{l} \text{;key[,start]} \\ \text{;variable} \end{array} \right) \right)$$

$$\text{KVAR} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{KVAR} \left(\left(\begin{array}{l} \text{key[,start]} \\ \text{variable} \end{array} \right) \left(\begin{array}{l} \text{;key[,start]} \\ \text{;variable} \end{array} \right) \right)$$

$$\text{MASk} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{MASk} \left(\left(\begin{array}{l} \text{exstngkey[,start]} \\ \text{variable} \\ \text{constant} \end{array} \right) \left[\begin{array}{l} \text{;comp} \\ \text{;= } \end{array} \right] \left[\begin{array}{l} \text{;value} \\ \text{;status} \end{array} \right] \left[\begin{array}{l} \text{;alt. status} \\ \text{; ' 9 ' } \end{array} \right] \right)$$

$$\text{PERcent} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{PERcent} \left(\left(\begin{array}{l} \text{exstngkey[,start]} \\ \text{variable} \end{array} \right) \right)$$

$$\text{PWF (Power Factor)} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{PWF} \left(\left(\begin{array}{l} \text{key[,start]} \\ \text{variable} \end{array} \right) \left(\begin{array}{l} \text{;key[,start]} \\ \text{;variable} \end{array} \right) \right)$$

$$\text{ROLling} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{ROLling} \left(\begin{array}{l} \text{exstngkey[,start]} \\ \text{variable} \end{array} \right) \left[\begin{array}{l} \text{;spi} \\ \text{;3600} \end{array} \right]$$

$$\text{SQrt} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \text{SQrt} \left(\left(\begin{array}{l} \text{key} \\ \text{variable} \\ \text{constant} \end{array} \right) \right)$$

$$\text{TOT} \left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \left(\begin{array}{l} \text{WKD} \\ \text{WKN} \\ \text{WDX} \\ \text{WNX} \\ \text{WDH} \\ \text{WNH} \\ \text{SUN} \\ \text{MON} \\ \text{TUE} \\ \text{WED} \\ \text{THU} \\ \text{FRI} \\ \text{SAT} \end{array} \right) \left(\left(\begin{array}{l} \text{exstngkey[,start]} \\ \text{variable} \\ \text{constant} \end{array} \right) \left[\begin{array}{l} \text{;status} \\ \text{; ' ' } \end{array} \right] \right)$$

TOU $\left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \mathbf{TOU} \left(\left\{ \begin{array}{l} \text{key} \\ \text{variable} \\ \text{constant} \end{array} \right\} \left[\begin{array}{l} ;\text{sch\#} \\ ;\underline{1} \end{array} \right] \left[\begin{array}{l} ;\text{tou} \\ ;\underline{1} \end{array} \right] \left[\begin{array}{l} ;\text{status} \\ ; \text{ ' ' } \end{array} \right] \left[\begin{array}{l} ;\text{alt. status} \\ ; \text{ ' 9 ' } \end{array} \right] \right)$

UOM $\left\{ \begin{array}{l} \text{key} \\ \text{variable} \end{array} \right\} = \mathbf{UOM}$ (two-digit unit-of-measure code)

Y630— Load Data Editor (ELDB) (See X310)

Y710—Statistical Package Interface (ELDB)

Control File—TGY71A

customer-id, channel [,*start-time*] [,**CLAss**]

Environment File—TGY71B

AGGgregate [*n* | **3600**]**DA**T*e* *start-time stop-time***MER**ge [**YES** | **NO**]**QUA**lity [*'q'* | *'g'*]**SOU**rce {**ELDB**}

Y720— Direct Output (ELDB)

Control File—TGY72A

customer-id, channel [,start-time][,INActive | .ACTive] [,CLAss]

Environment File — TGY72B

24Hradj [YES | NO]

AGGgregate [*n* | 0]

CDAt *start-date stop-date*

CSV

DAlly [SEndout [*h* | 0]] [FOR [*x,y* | 7,3]] [HEAder]

DAte *start-date stop-date*

INP

LSE

MERge [YES | NO | EXClude]

ONerecord

QUALity [*'q'* | *'8'*]

SOUrce {ELDB | SLDB}[BOTH][2]

STAtus [NO | YES]

XML

GRaph

Y740— Direct Output (SLDB) (See Y720)

Y760— Day Type Analysis (ELDB)

Control File — TGY76A

customer-id, channel, [optional 88-character title]

Environment File — TGY76B

DAte [*start-date*] [*stop-date*]

QUALity [*'q'* | *'8'*]

REPort [WD | WN | PK | NP | NONe | ALL]

SOUrce {CLDB [BOTH] [2] | ALDB [2] | ELDB [BOTH] [2] |

SLDB [2]}

SEASON *n*

TL1 [*optional 80-character title*]

TL2 [*optional 80-character title*]

MERge [YES | NO | EXClude]

TYPe [WD | WN | PK | NP | NONe | ALL]

Peak Days File—TGY76C

mm/dd/yy date designation

Holiday File—TGY31C

mm/dd/yy

Season File—TGY31E

Season-sch# season# tou-sch# date-range [comment]

Y770— Day Type Analysis (SLDB)

(See Y760)

Y780—Statistic Extraction (CLDB, ALDB, ELDB, or SLDB)

Control File

statistic-id stratum [label] [period] [totalize-method] [PKDate]
[CLAss] [time-of-use]

Environment File

TTL *title***CLAss****DECimal** *digits***PERiod** *period type***TOTALize** *totalize method***ROW** *value, label***COL** *value, label***AGGgregate** *spi***DATE** *start-time Label***ZERoes****DELimiter** *period type***24Hadjust** YES | NO**SCHedule** *schedule#-period#***SEASON** *season#-period#*

Y810— ELDB Key Generator (See X810)

Y820— SLDB Key Generator (See X810)

Y910— Archive/Delete

Control File — TGY91A (see Key Generator X810)

customer-id, channel, start-time

Environment File — TGX92B

PRInt [ECONomize | **FULL**]

REPort [EXCeptions | **ALL**]

SOURce {CLDB}

Y960— SLDB Retrieval

Control File — TGY96A

customer-id, channel, start-time

Environment File—TGY96B

DATE [*start-time stop-time* | **ALL**]

FLAgS [NOReset | **RESet**]

SELeCt [ALL | **KEY**]

Procedure

Name	Procedure Description
	Sampling Programs—Sampling Bundle
B110	Record Definition
B210	Single Dimensional Population Analysis
B220	Multi-Dimensional Population Analysis
B310	Single Dimensional Sample Design
B320	Multi-Dimensional Sample Design
B410	Single Dimensional Sample Selection
B420	Multi-Dimensional Sample Selection
B520	Sample Validation
B960	Population Data File Conversion
	Cost of Service Interface Programs—Analysis Bundle
G110	COSI Direct Input (GLDB)
Z120	COSI SLDB/ELDB Data Extraction
G130	COSI Energy Allocators
G210	COSI Allocate Sampling Error
G250	COSI Allocate T&D Losses
G310	COSI GLDB Data Editor
G410	COSI Rates Reporter
G430	COSI GLDB Time Series Reporter
G440	COSI GLDB Summary Reporter
G450	COSI RLDB Summary Reporter
G610	COSI Cost Allocators
G710	COSI Statistics Output
G720	COSI Direct Output
G810	COSI GLDB Key Generator

B110 — Record Definition

Control File—TGB12A

Field Definition Statements—

variable name *datatype* **HIST** *comment*

Adjustment Statements—

ADJUST {+*d* | -*d*} *comment*

Population Data File (SCDB)

(Refer to *Oracle Utilities Sampling Package User's Guide*)

B210 — Single Dimensional Population Analysis

Population Data File (SCDB) (See B110)

Record Definition File—TGB22C

(use TGB121)

Control File—TGB22A

Comments—

*/*comment*/*

Test statements—

selection-variable = test-value

usage variable # 0.0 F (COUNT1)

usage-variable > x₂.0 F (COUNT2)

usage-variable > x₃.0 F (COUNT3)

....

usage-variable > x_n.0 F (COUNTN) T (COUNTn+1)

Formats:

End:

Format statements—

' x_n.0' COUNTn SKIP(1)

Sampling Parameter File

(Refer to *Oracle Utilities Sampling Package User's Guide*)

B220 — Multi-Dimensional Population Analysis

Population Data File (SCDB) (See B110)

Record Definition File—TGB22C
(use TGB121)

Control File—TGB22A (See B210)

Also include:

Dim statement—

Dim_n a₁, a₂, ... a_n b value

Dimensions based on usage variables—

usage variable > strata lower bound **T(COUNT 99_n) F** (label)

Dimensions based on demographic or categorical variables—

demographic value = 'value' **T(COUNT99_n, label for next series)**

F(COUNT99_n, label for next statement)

Sampling Parameter File

(Refer to *Oracle Utilities Sampling Package User's Guide*)

B310— Single Dimensional Sample Design

Frequency Distribution File (created by B210 program)

Environment File—TGB31B

DESIGN {**FIXED** *sample-size* | **OPTIMAL** *precision level-of-confidence* |
OPTIMAL COEFFICIENT *coefficient-of-variation*} [min]**END** [*breakpoint* [*sigma* | 100%]]**HD1** [*title*]**HD2** [*title*]**LENGTH** [*l* | Q]**MEAN** [*demand*]**STRATA** [**FIXED** | *m n* | Q Z]

B320— Multi-Dimensional Sample Design

Population Statistics File—TGB32A

(Use Population Statistics File (.PSF) from B220)

Environment File—TGB32B

DESign {**FIX**ed *sample-size* | **OPT**imal *precision level-of-confidence* |
OPTimal **COE**fficient *coefficient-of-variation*} [*min*]

HD1 [*title*]

HD2 [*title*]

B410 — Single Dimensional Sample Selection

Population Data File—(SCDB)

(See B110)

Record Definition File—TGB22C

(Use TGB121)

Control File—TGB22A

Comments—

*/*comment */*

Test statements—

Selection-variable = test-value

usage-variable > stratum-lower-bound_{1...n} **T**(COUNT₉₉₁)**F**(CELL)

Dim1 n b usage-variable

File Statements—

Y_{1 ... n}: **STRATA** = **Y**_{1 ... n} **RAN#** = **RANDOM** (a,b)

Reporting Control File—TGB22A.RCF

(refer to *Oracle Utilities Sampling Package User's Guide*)

B420— Multi-Dimensional Sample Selection

Population Data File—(SCDB)

(use version created by Multi-Dimensional Population Analysis)

Record Definition File— TGB22C

(use TGB121)

Control File—TGB22A

Comments—

```
/* comment */
```

Test statements—

```
STRATA > n F(WRITE n)
```

Formats:

File:

```
n: RAN# = RANDOM (a,b)
```

Reporting Control File—TGB22A.RCF

(refer to *Oracle Utilities Sampling Package User's Guide*)

B520— Sample Validation

Relative Accuracy File—TGB52B

ALPha [5.00 | 10.00]

GROup *title*

Sample Statistics File—*.SSF

(Use *.SSF file from B410 for single dimensional design or B420 for multi-dimensional design)

Population Statistics File—*.PSF

(Use *.PSF file from B410 for a single dimensional design; or *.PSF file from from B220 for a multi-dimensional design)

B960— Population Data File Conversion

Population Data File (SCDB or *.PDF)

Record Definition File

(Use TB121 or *.RDF created in B110)

Sampling Parameter File (*.SPF)

(created/edited by administrator only)

G110 — COSI Direct Input (GLDB)

Load Data File—TGG11E

First Header Record Format (required)

Sort Code, customer identifier, channel, start-time, stop-time intervals per hour, unit of measure, alternate format, filler

Second Header Record Format (optional)

Sort Code, filler, pulse multiplier, filler, pulse offset

Third Header Record Format (optional)

SortCode, descriptor, alternate pulse multiplier, population, filler

Fourth Header Record Format (optional)

SortCode, descriptor, filler

Load Data Record Format (required)

SortCode, data values, final filler

Environment File—TGG11B

LOAD [REPlace] [KEY] [ADJust] [DST [VAR]] [ASIs [IPH]]

Z120 — COSI SLDB/ELDB Data Extraction

Control File—TGZ12A

For extracting customer loads—

customer-id, channel, ASIs

For extracting statistics—

statistics-id-prefix [,**ERRor** | ,**NOError**] [,**COMBined** | ,**RATio** | ,**SEPa-rate** | ,100 | ,**STAndard**] [,**DOMains**]

Environment File—TGZ12B

AGG [n | 3600]

ASIs [*iph*]

CDAte new-start-date new-stop-date

DAte *start-date stop-date*

ERRor

SOUrce [SLDB | ELDB | **BOTH**]

G130 —COSI Energy Allocators

Control File—TGG13A

- For Street Lighting Allocation

{**KEY** *rate-class-prefix1* [, *descriptor1*]**KEY** *rate-class-prefix2* [, *descriptor2*]

...

KEY *rate-class-prefixN* [, *descriptorN*] }**LITe****POPulation** *value1, value2 ... valueN***ENERgy uom** *value1, value2 ... valueN***SUN***sunrise hour1, sunset hour1, sunrise hour2, sunset hour2 ...**sunrise hour N, sunset hour N***END**

- For Allocation Based on Existing Load Shapes

KEY *rate-class-prefix* [,*descriptor*]**LOAD****POPulation** *value***SHApe1** *customer-id, channel* [,*factor1*]**SHApe2** *customer-id, channel* [,*factor2*]

...

SHApeN *customer-id, channel* [,*factorN*]**MONTHly uom** *energy-value***END**

- For Even Allocation

KEY *rate-class-prefix* [,*descriptor*]**EVEN****POPulation** *value***DAILY uom***value1, value2,...valueN***END**

(Continued Next Page)

G130 —COSI Energy Allocators (Continued)

- For Allocation Over Workdays

KEY *rate-class-prefix1* [*,descriptor1*]

WORK

POPulation *value*

TIME *start-time end-time*

ENERgy *uom energy-value*

END

- For Additive Allocation

KEY *rate-class-prefix1* [*,descriptor1*]

ADD

POPulation *value*

{**SHApe1** *customer-id, channel* [*,factor1*][**SUBtract** | **ADD**]

SHApe2 *customer-id, channel* [*,factor2*][**SUBtract** | **ADD**]

...

SHApeN *customer-id, channel* [*,factorN*][**SUBtract** | **ADD**] }

END

- For Multiplication

MUL *custid, channel* [*start-time*]

{**WRItE** *rate-class-prefix1 ,constant* [*, descriptor*]

WRItE *rate-class-prefix2 ,constant* [*, descriptor*]

...

WRItE *rate-class-prefixN ,constant* [*, descriptor*] }

END

Environment File—TGG13B

DATE *start-date stop-date*

REPlace

G210— COSI Allocate Sampling Error

Environment File—TGG21B

DATE *start-date stop-date***DIScrepancy** *rate-class-prefix***LOSS** *voltage-level-prefix* {**CUT** *recorderid channel* [*fixed-loss*]
| *variable-loss* [*fixed-loss*] [**LOAD** *peak-load*] }**PEAK** *peak-time***REPlace****SCHedule** [*n* | *Q*]**TITLe** *text*{**VARIABLE** | **FIXed-variable** [**ENVironment** | **RATe**]}{**PROportional** | **STANDARD** | **ADD** *rate-class-prefix*}**VERsion** [*n* | *Q*]**WRItE** [**INITial** | **PREmise** | **NONE** | **ALL**][**AVE**][**CD**][**ENE**][**MAX**][**MCD**][**MIN**]

Rate File—TGG21C

Report Format Commands

[**MW** | **KW**]**DECimal** [*n* | *Q*]

Rate Class/Sub-Class Group Record Format

*Rate-class-prefix, descriptor1, descriptor2, descriptor3, allocate error
flag, weight factor, fixed loss amount, voltage level prefix, folding flag*

Group Sub-Total Format—

*Sub, class-prefix, descriptor1, descriptor2, descrip-
tor3, rate-class-prefix1, ... rate-class-prefixN*
[**,NOStatistics**]

System Record Format—

SYSTEM, *rate-class-prefix, descriptor1, descriptor2, descriptor3, allo-
cate error flag, weight factor, fixed loss amount, voltage level prefix, fold-
ing flag*

Loss and Error Record Format

LOSS, *group, description1, descriptor2, descriptor3***ERROR**, *descriptor1, descriptor2, descriptor3*

Time-of-Use File—TGE31D (See Y310)

Holiday File—TGE31C (See Y310)

G250— COSI Allocate T&D Losses

Environment File—TGG25B

DATE *start-date stop-date***DIScrepancy** *rate-class-prefix***FOLD** *rate-class-prefix, rate-class-prefix1, ... rate-class-prefixN***LOSS** *voltage-level-prefix fixed-loss***PEAk** *peak-time***REPlace****SCHedule** [*n* | 0]**TITLe**{**VARiable** | **FIXed-variable** [**RATe** | **ENVironment**] [**CD** | **NCD** | **SCD**]}**VERsion** [*n* | 0] | **INPut** [*n* | 0] | **OUTput** [*n* | 0]**WRItE** [**GNR1** | **NGNR2** | **NONE** | **ALL**] [**AVE**] [**CD**] [**ENE**] [**MAX**] [**MCD**] [**MIN**] [**SD**]

Rate File—TGG21C (See G210)

Time-of-Use File—TGE31D (See Y310)

Holiday File—TGE31C (See Y310)

G310—COSI GLDB Data Editor

Control File—TGG31A

Format for cuts start-time

mm/dd/yy-hh:mm (for example, 01/23/89—00:01)

mmddyymm (for example, 0123890001)

Format for creating the Data Editor Control File:

CHAnge *rate-class-prefix1 start-time1 TO rate-class-prefix2 start-time2*

COPy *rate-class-prefix1 start-time1 TO rate-class-prefix2 start-time2*

ERAsE *rate-class-id start-time*

KEY *rate-class-prefix start-time*

MODify *time VALUE z1 [z2 z3 ...zn]*

G410—COSI Rates Reporter

Title File—TGG41C

DAILY

MONTHLY

INIT

PRMS

GNR1

GNR2

LOSS

AWD

AWE

DEMAND

CD

ENERgy

MAXimum

MINimum

TTL *n text*

COM *n text*

(Continued Next Page)

G410—COSI Rates Reporter (Continued)

G410— COSI Rates Reporter (Continued)

Format for Title File

For Daily Reports	Categories	For Monthly Report
DAILY TTLn text COMn text	<i>Report Duration</i>	MONTHLY TTLn text COMn text
INIT TTLn text COMn text		INIT TTLn text COMn text
PRMS TTLn text COMn text	<i>Report Group</i>	PRMS TTLn text COMn text
GNR1 TTLn text COMn text		GNR1 TTLn text COMn text
GNR2 TTLn text COMn text		GNR2 TTLn text COMn text
LOSS TTLn text COMn text		LOSS TTLn text COMn text
AWD TTLn text COMn text	<i>Report Type</i>	MAX TTLn text COMn text
AWE TTLn text COMn text		MIN TTLn text COMn text
HWN TTLn text COMn text		CD TTLn text COMn text
DEMan TTLn text COMn text		ENERgy TTLn text COMn text

Rate File—TGG21C (See G210)

Time-of-Use File—TGE31D (See Y310)

Holiday File—TGE31C (See Y310)

(Continued Next Page)

G410—COSI Rates Reporter (Continued)

Environment File—TGG41B

DATE *start-date stop-date*

DURATION [**BOTH** | **MONTHly** | **DAIly**]

GROUP [**ALL** | [**INIT**][**PRMS**][**GNR1**][**GNR2**][**LOSS**]

PAGE [*n* | **60**]

SCHEDULE [*n* | **0**]

TYPE [**ALL** |

[**AWD**][**AWE**][**CD**][**DEMAND**][**ENERgy**][**HWN**][**MAXi-
mum**][**MINimum**]

VERSION [*n* | **0**]

G430—COSI GLDB Time Series Reporter

Control File—TGG43A

REPORT *report-name*

TLn [*title-line* | **NULL** | **BLANK**]

KEY *customer-id, channel* [,*start-date*] [**SUM** | **NOsum**]

[**PEAK** | **NOPeak**] [**DEC** (*n*) | **DEC** (**2**)] [**CHI1** '*head1*'] [**CH2** '*head2*']

Environment File—TGG43B

DATE *start-date stop-date*

FILE [**NO** | **YES** [**BLOCK** | **NOBlock**] [**DATES** | **NODates**]

G440— COSI GLDB Summary Reporter

Environment—TGG44B (See G210)

DATE [*start-time stop-time* | **ALL**]**SElect** [**KEY** | **ALL**]**SOURce** {**GLDB**}

Control File—TGG44A

*Cust-id, channel***G450— COSI RLDB Summary Reporter**

Environment (See G440)

SOURce {**RLDB**}

G610— COSI Cost Allocators

Environment File—TGG61B

CUStermer [**AVE**rage | **MON**th *month-name* |
INPut *rate-class-prefix1 pop1*
rate-class-prefix2 pop2
rate-class-prefixN popN
END]
DAT*e* *start-date1 stop-date1* [*start-date2 stop-date2*]
DEMand [**CD** *n* | **NCP** | **AVE** *n* | **EOM** *n* | **ALL** *n* | **SEP** [*n* | 1]
GROU*p* [**PRMS** | **GNR1** | **GNR2**]
PAGE [*n* | 60]
PEAK *mm/dd/yy—hh:mm*
SCHedule [*n* | 0]
SEASon [*n* | 0]
SOUR*ce* [**ALL** | **RLDB** | **GLDB**]
TITle *text*
VERsion [*n* | 0]

Title File—TGG61C

TTL1 *text*
TTL2 *text*

Rate File—TGG21C (See G210)

Time-of-Use File—TGE31D (See Y310)

Holiday File—TGE31C (See Y310)

Season File—TGG61D

Season-schedule, season-number, tou-schedule, start-time,
stop-time, season-name

FILE HEADER RECORD:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'HDR'
#RATES	PIC '9999'	Number of Rate classes, including System and subtotals, profiled in this file
#TOU	PIC '99'	Number of Time-of-Use periods
START-DATE	PIC '999999'	First date in date range (MMDDYY)
STOP-DATE	PIC '999999'	Last date in date range (MMDDYY)
DATA LEVEL	CHAR (4)	Level of data used (PRMS, GNR1, or GNR2)
DEM MON#	PIC '99'	Number of months over which System Peak Demand was averaged
SCHEDULE#	PIC '99'	Time-of-Use Schedule being used, or 0 if Season Schedule is used
IPH	PIC '999'	Intervals Per Hour
VERSION	PIC '9'	Test data version used for this run
UOM	CHAR (2)	Unit of Measure used (KW or MW)—from Rate File
DECIMALS	PIC '9'	Number of assumed decimal places in amount fields (from Rate File)
SYSTEM PEAKS(12)		
DATE	PIC '999999'	MMDDYY of System Peak
HOUR ENDING	PIC '99'	Hour Ending (1-24)

Note: The number of these pairs of fields containing actual data will be = DEM MON#;; the rest will be zero-filled.

If season processing is done, these fields are zero-filled, and separate system peak data is written for each season in Season Header Record 3.

FILE HEADER RECORD2:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'HD2'
#RANGES	PIC '99'	Number of Date Ranges (1 to 2)
START-DATE-2	PIC '999999'	Start date in second date range (MMDDYY), or 0 if # RANGES = 1
STOP-DATE-2	PIC '999999'	Stop date in second date range (MMDDYY), or 0 if # RANGES = 1
SEASON SCHEDULE	PIC '99'	The Season Schedule used, or 0 if more used
SEASON COUNT	PIC '99'	The number of distinct seasons contained in the analysis period, or 0 if Season Schedule is not used.
SYSTEM MINIMUMS(12)		
DATE	PIC '999999'	MMDDYY of system Minimum
HOUR ENDING	PIC '99'	Hour Ending (1-24)
		Note: the number of these pairs of fields containing actual data will be = DEM MON#; the rest will be zero-filled.
FILLER	CHAR (15)	Blanks

FILE HEADER RECORD3:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'HD3'
#SUPP-PEAKS	PIC '99'	Number of Supplied Peaks
SUPPLIED PEAKS(12)		
DATE	PIC '999999'	MMDDYY of this Supplied Peak
HOUR ENDING	PIC '99'	Hour Ending (1-24)
FILLER	CHAR(31)	Blanks

(Continued Next Page)

SEASON HEADER RECORD1:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'SH1'
SEASON-NUMBER-1	PIC '99'	Season number from the Season File (1-9)
SEASON #TOU	PIC '99'	Number of Time-of-Use periods in this season.
SEASON RANGES (10)		
SEASON-START-DATE	PIC '999999'	First date in a portion of this season (MMDDYY)
SEASON-STOP-DATE	PIC '999999'	Last date in a portion of this season (MMDDYY)
FILLER	CHAR (5)	Blanks

SEASON HEADER RECORD2:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'SH2'
SEASON-NUMBER-2	PIC '99'	Season number (same as Season-Number-1)
SEASON RANGES (2)		(Filled only if there are more than 10 portions of this season.)
SEASON-START-DATE	PIC '999999'	First date in a portion of this season (MMDDYY)
SEASON-STOP-DATE	PIC '999999'	Last date in a portion of this season (MMDDYY)
#SEASON-SUPP-PEAKS	PIC '99'	Number of Supplied Peaks in this Season
SEASON SUPPLIED PEAKS(12)		
DATE	PIC '999999'	MMDDYY of this Supplied Peak
HOUR ENDING	PIC '99'	Hour Ending (1-24)
FILLER	CHAR (5)	Blanks

SEASON HEADER RECORD3:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'SH3'
SEASON-NUMBER-3	PIC '99'	Season number (same as Season-Number-1)
SEASON NAME	CHAR(30)	Name of season from Season File
SEASON SYSTEM PEAKS (12)		
DATE	PIC '999999'	MMDDYY of monthly System Peak for this season
HOUR ENDING	PIC '99'	Hour Ending (1-24)
		Note:The number of these pairs of fields containing actual data will be = DEM MON#, unless there are fewer months in this season, in which case only that lesser number of pairs will be filled; the rest will be zero-filled.
FILLER	CHAR(1)	Blanks

(Continued Next Page)

ENERGY RECORD

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'NRG'
RATE CLASS	CHAR (6)	Rate class prefix for which this record contains data
TOU	PIC '99'	Time-of-Use period for which this record contains data
ENERGY AMOUNT	PIC length 12 *See note	Total Energy use for this Rate and Time-of-Use period
ENERGY SEASON	PIC '99'	Season number for which this record contains data, zero-filled if season processing is not being done.
FILLER	CHAR (107)	Blanks

COINCIDENT DEMAND RECORD:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'CD'
RATE CLASS	CHAR (6)	Rate-class prefix for which this record contains data
TOU	PIC '99'	Time-of-Use period for which this record contains data
CD AMOUNT	PIC length 12 *See note	Average Coincident Demand for this Rate and Time-of-Use period (averaged over DEM MON# months of highest System Peak)
CD SEASON	PIC '99'	Season number for which this record contains data, zero-filled if season processing is not being done.
FILLER	CHAR (107)	Blanks

NON-COINCIDENT DEMAND RECORD:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD	CHAR (3)	'NCP'
RATE CLASS	CHAR (3)	Rate-class prefix for which this record contains data
TOU	PIC '99'	Time-of-Use period for which this record contains data
NCP DATE	PIC '999999'	MMDDYY the Peak occurred
NCP HOUR	PIC '99'	Hour Ending (1-24) of the Peak
NCP AMOUNT	PIC length 12 *See note	Highest Non-Coincident Peak for this Rate and Time-of-Use period over the entire Data Range
NCD SEASON	PIC '99'	Season number for which this record contains data, zero-filled if season processing is not being done.
NCP FILLER	CHAR (99)	Blanks

*NOTE: The amount fields marked with an asterisk are written to the file using a variable number of implied decimal places. This number is determined by the #DEC value entered in the Rate File, is the same as the number of decimal places shown on the Cost Allocation Reports, and is given in the DECIMALS field of the Header Record. Thus, if DECIMALS contains the value 03, the actual format for ENERGY AMOUNT would be PIC '(9)9v99'.

(Continued Next Page)

G610—COSI Cost Allocators - Output File (Continued)**AVERAGE AND EXCESS RECORD:**

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'AVE'
RATE CLASS	CHAR (6)	Rate-class prefix for which this record contains data
TOU	PIC '99'	Time-of-Use period for which this record contains data
NCP DATE	PIC '999999'	MMDDYY the Peak occurred
NCP HOUR	PIC '99'	Hour Ending (1-24) of the Peak
NCP AMOUNT	PIC, length 12	Highest Non-Coincident Peak for this Rate and Time-of-Use period over the entire Data Range
A&E AMOUNT	PIC, length 12	Average and Excess Amount
ENERGY AMOUNT	PIC, length 12	Total Energy for Rate and TOU Period
A&E SEASON	PIC '99'	Season number for which this record contains data, zero-filled if season processing is not being done.
FILLER	CHAR (75)	Blanks

EXCESS OVER MINIMUM RECORD:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'EOM'
RATE CLASS	CHAR (6)	System class (this record written for System only)
TOU	PIC '99'	Time-of-Use period for which this record contains data
AVERAGE MINI-MUM	PIC, length 12*	The Average minimum demand for this Time-of-Use period (Average of DEM MON# lowest system minimum demands)
MINIMUM SALES	PIC, length 12*	Product of the above and the number of hours for this Time-of-Use period (in this season, if season processing is being done)
SALES OVER MIN.	PIC, length 12*	Difference between actual sales and the above field
AVG. EXCESS OVER MINIMUM	PIC, length 12*	The above field divided by the number of hours in the Time-of-Use periods
TOU HOURS	PIC '9999'	The number of hours in this Time-of-Use period (and within this season, if season processing is being done), used in calculating the above fields.
EOM SEASON	PIC '99'	Season number for which this record contains data, zero-filled if season processing is not being done
FILLER	CHAR (67)	Blanks

SUPPLIED PEAK RECORD:

<u>Field Name</u>	<u>Format, Length</u>	<u>Contents</u>
RECORD ID	CHAR (3)	'SUP'
RATE CLASS	CHAR (6)	Rate-class prefix for which this record contains data
TOU	PIC '99'	'01' (Entire Period)
SUPP. AMOUNT	PIC, length 12*	Supplied Peak Amount
SUPP. SEASON	PIC '99'	Season number for which this record contains data, zero-filled if season processing is not being done
FILLER	CHAR (107)	Blanks

*NOTE: See NOTE following NON-COINCIDENT DEMAND RECORD file format.

G710— COSI Statistics Output

Environment File—TGG71B

DATE *start-date stop-date***GROUP** [GNR1 | GNR2 | INIT | PRMS]**SCHEDULE** [*n* | Q]**VERSION** [*n* | Q]

Rate File—TGG21C (See G210)

Time-of-Use File—TGE31D (See Y310)

G720— COSI Direct Output

Environment—TGG72B

DATE *start-date stop-date***SOURCE** [BOTH | GLDB | RLDB]

Control File—TGG72A

Customer-id, version-number [,start-time]**G810— COSI GLDB Key Generator** (See Y810)

The following variables are not valid for the GLDB:

ARCHIVE	MOFFSET	POFFSET
EDITED	MMULT	PSUM
EXTVALID	MSTART	
INTVALID	MSTOP	
MERGE	PMULT	

Load Data Status Codes

Status

Code	Description
' '	Normal
'A'	Normal, alternate-record (e.g., hand-entered)
'J'	Data inserted by Oracle Utilities Load Analysis to correct outage
'L'	Default for data modified by Load Data Editor
'N'	Interruptible or curtailable load
'P'	Inserted outage
'Q'	Corrected outage
'X'	Cuts resulting from merging invalid data or from unrecognized status-codes
'Y'	Reserved
'1'	Uncorrected outage (also called loss of potential)
'2'	Non-normal (usually timing-pulse defects)
'5'	Aggregated interval used in rolling format with partially missing or unavailable data
'7'	Aggregated or transformed interval with partially missing data
'9'	Missing

Unit of Measure Codes

Unit of Measure Codes

Code Description	Code Description
01 — KWH	51 — KWH-Out
02 — KW	52 — KW-Out
03 — KVARH	53 — KVARH-Out
04 — KVAH	54 — KVAH-Out
05 — TEMP (°F)	55 — KQH-Out
06 — KQD	56 — Leading KVARH
07 — V ² H (PTP)	57 — Leading KVARH-Out
08 — KQH	58 — Lagging KVARH
09 — KQH (45 degrees)	59 — Lagging KVARH-Out
10 — I ² H	60 — Gallons Per Minutes (GPM)
11 — Volts	61 — BTU
12 — Amps	62 — Therms
13 — TEMP (°C)	63 — Cubic Feet Per Minute (CFM)
14 — Dew Point	64 — Cubic Feet Per Second (CFS)
15 — Amplitude	65 — WM ²
16 — Miscellaneous	66 — Relative Humidity (RH)
17 — Minute Run Time (MRT)	67 — MPH
18 — Wind Velocity (cms)	68 — THI
19 — V2H (PTN)	69 — Gallons
20 — Percent	70 — Cubic Feet
21 — Flow	71 — Temp Difference
22 — KVAR	72 — KVAR-Out
23 — KVA	73 — KVA-Out
24 — KVA Ratio	74 — Knots
25 — Power Factor	75 — Degrees
26 — Hertz	76 — Hundred Cubic Feet (Gas)
27 — Feet	77 — Cubic Feet Per Hour (Gas)
28 — Minutes	78 — Pounds Per Square Inch
29 — On/Off (Tap Position)	79 — Dollars
30 — Inches	80 — Decatherms (DTH)
31 — Individual KWH	81 — Pounds
32 — KWH r	82 — Pounds Per Hour
33 — Individual Totalized KVARH	83 — MPounds
34 — KVARH r	84 — MPounds Per Hour
35 — Individual Totalized Temp (°F)	85 — Dollars Per KWH
36 — KVAH r	86 — Dollars Per MW
37 — Individual Totalized V ² H	87 — Dollars Per MWH
38 — Individual Totalized KQH	88 — Dollars per Hour
39 — KQH r	89 — Volt Hours
40 — Miscellaneous — Average	90 — Individual Totalized Cubic Feet
41 — Individual Totalized Volts	91 — Individual Totalized BTU
42 — Individual Totalized Amps	92 — Pressure in Millibars
43 — Individual Totalized Temp (°C)	93 — Visibility in Miles
44 — MW (Substation only)	94 — Cents per KWH
45 — MVAR (Substation only)	99 — Individual Totalized Gallons
46 — MVA (Substation only)	100 — MWH
47 — Individual Totalized MRT	102 — Euros
48 — Individual Totalized CMS	103 — Euros per MWH
49 — Run Hours	104 — Euros MW
50 — EQV.FULL LD Hours	105 — GW
	106 — TWH
	107 — Cubic Meters (M3)
	108 — Mega Joules per Cubic Meter (MJ/m3)
	109 — Kilograms per Cubic Meter (Kg/m3)
	110 — Cubic Meters per Hour (M3/h)

Key Generator Variable List

Variable	Format
ARCHIVE	flag
CFIELD	character 1
CHANNEL	character 1
CUSTID	character 20
CUSTID	character i
DESC	character 80
EDITED	flag
EXTVALID	flag
INTVALID	flag
IPH	integer
MERGE	flag
MMULT	real
MOFFSET	real
MSGi	character 80
MSTART	real
MSTOP	real
OLD KEY	character 34
PMULT	real
POFFSET	real
PSUM	integer
RECTYPE	character 1
START	mm/dd/yy-hh:mm
STARTDAT	mm/dd/yy
STOP	mm/dd/yy-hh:mm
STOPDAT	mm/dd/yy
TOTINT	integer
UOM	character 2

Wildcard Examples

“Does the variable CUSTID contain AGG?”

CUSTID=* ‘AGG’

“Does the variable CUSTID contain AGG starting in column 4?”

CUSTID=? ???AGG

Variable Formats

Variable Formats

Variable	Allowed Values
billed-energy	actual/billed energy
bound	non-negative number
comment	characters
channel, chan1, chan2 . . . chanx	single digit 0-9
ci (unit of measure)	2 character code
component key	4-6 character prefix, usually 'STAR'
customer-id	character 20
d (device no., plotter)	numeric
data	non-negative integer, <32760
day-list	1 - Sunday 2 - Monday 3 - Tuesday 4 - Wednesday 5 - Thursday 6 - Friday 7 - Saturday 8 - Holiday
descriptor	character 80
descriptor 1	character 40
descriptor 2	character 40
domain	character 1
e1, e2	range, ratio of meter energy to pulse
energy	
factor	value between 0 and 1
iph	1, 2, 4, 12, or 60
jid	character 8
k	non-negative integer
key, key1, key2	customer-id, channel, start-time
label	alphanumeric, 1-8; last position must be ':';
	first must be alphabetic
legend	20 characters
mmult	non-zero, positive real number
moffset	real number
mpi (minutes per interval)	1, 5, 15, 30 or 60
mstart	positive real number
mstop	positive real number
m1, m2	integer
n	non-negative integer
op	+ add - subtract * multiply / divide **exponentiate
output-key	4-6 character prefix
p (population, popln)	non-negative integer
peak-time	mm/dd/yy-hh:mm
period	period number
pmult	non-zero, positive real number
poffset	real number
popln (population)	non-negative integer
ps (page selection)	positive real number
q	status code

Variable	Allowed Values
rectype	S, T, D, V
remark	character 50
s	status code
sch#	schedule number
spi	86400, 3600, 1800, 900, 300, 60
start-time	mm/dd/yy-hh:mm or mmdyyhhmm
status	single alphanumeric value
stop-time	mm/dd/yy-hh:mm or mmdyyhhmm
strata, strata-number	non-negative integer
system-code	8 digit number
t	time of use schedule number
text-field	80 characters
time, time1, time2, time3	mm/dd/yy-hh:mm or mmdyyhhmm
time-range	pair of times h1:m1 h2:m2
TZSN	See “LSCALENDAR.CFG.XML” on page 2-23 of the Oracle Utilities Energy Information Platform Configuration Guide
title	character 76
tly (y-axis label)	character 60
t1, t2	1, 5, 15, 30 or 60
tl1 (primary plot title)	character 40
tl2 (primary plot title)	character 40
type	kind of analysis RATio COMBined SEParate STAndard
unit	2 digit unit-of-measure code
w (weight)	any number between 0 and 1
xlen (x-axis, plotter)	positive real number
ylen (y-axis, plotter)	positive real number
z, z1, . . . z29	any numeric format, may be negative

Report Qualifiers

Analysis Statistic Names

Report Qualifiers

Code	Descriptors
AD	Average Day Demands (KW)
ADX	Average Day Demands Excluding Holidays (KW)
CD	Maximum Coincident Demands (KW)
CF	Coincidence Factors
DEM	Average Demand Period
DF	Diversity Factors
ENTR	Entire Period Demands (KW)
FRI	Average Friday Demands (KW)
HWN	Average Holiday and Weekend Demands (KW)
LFC	Load Factors Based on Maximum Coincident Demands
LFN	Load Factors Based on Noncoincident Demands
MCD	Minimum Coincident Demand (KW)
MON	Average Monday Demands (KW)
MNEN	Day of Class Minimum Demands (KW)
MNT01	Day of Class Minimum TOU Period1 Demands (KW)
MNT02	Day of Class Minimum TOU Period2 Demands (KW)
MXEN	Day of Class Peak Demands (KW)
MXP01	Day of Supplied Peak 01 Demands (KW)
MXT01	Day of Class Peak TOU Period 01 Demands (KW)
MXT02	Day of Class Peak TOU Period 02 Demands (KW)
NCD	Noncoincident Demands (KW)
NGY	Energy (KWH (Prorated))
SAT	Average Saturday Demands (KW)
SDR	Standard Deviation of Sample Residuals of Demand (KW)
SMPL	Standard Deviation of Sample Demand (KW)
SUN	Average Sunday Demands (KW)
THU	Average Thursday Demands (KW)
TUE	Average Tuesday Demands (KW)
USD	User Supplied Days
WD	Average Weekday Demands (KW)
WDH	Average Weekday Holiday Demands (KW)
WDX	Average Weekday Demands Excluding Holidays (KW)
WED	Average Wednesday Demands (KW)
WN	Average Weekend Demands (KW)
WNH	Average Weekend Holiday Demands (KW)
WNX	Average Weekend Demands Excluding Holidays (KW)

Statistic Qualifiers

Code	Descriptors
AVRG	Sample Mean
CMEN	Combined Ratio Mean KW
CPRE	Combined Relative Precision
CRAT	Combined Ratio
CSDR	Combined Standard Deviation of Residuals
DUR	Load Duration
FREE	Degrees of Freedom
MEAN	Sample Mean
POPL	Population
PREC	Relative Precision
RMEN	Ratio Mean KW
RPRE	Relative Precision
RRAT	Ratio
RSIZ	Sample Size
SCOR	Expansion Correlation (KW, KWH)
SECM	Standard Error Combined Ratio Mean KW
SERM	Standard Error Ratio Mean KW
SESM	Standard Error of Sample Mean
SESP	Standard Error Separate Ratio Mean KW
SETL	Standard Error of Sample Total
SIZE	Sample Size
SMEN	Separate Ratio Mean KW
SPRE	Separate Relative Precision
SSDR	Separate Standard Deviation of Residuals
SSIZ	Sample Size
SSTU	10% T-Statistic
STDV	Standard Deviation of Sample Demand
TOTL	Total Demand

Standard Input/Output Record Formats

First Header Record Format

ELEMENT	DESCRIPTION	ATTRIBUTES	LENGTH IN BYTES
1	Sort Code	PIC '9999'	4
2	Customer Identifier	CHAR(20)	20
3	Channel	PIC '9'	1
4	Start Time	PIC'(10)9'	10
5	Stop Time	PIC'(10)9'	10
6	Intervals-per-hour	PIC'99'	2
7	Unit-of-Measure	PIC'99'	2
8	Alternate Format	PIC'9'	1
9	Filler	CHAR(30)	30

Second Header Record Format

ELEMENT	DESCRIPTION	ATTRIBUTES	LENGTH IN BYTES
1	Sort Code	PIC '9999'	4
2	Meter Start Reading	PIC'(6)9V9'	7
3	Meter Stop Reading	PIC'(6)9V9'	7
4	Meter Multiplier	PIC'(10)9V(5)9'	15
5	Pulse Multiplier	PIC'(10)9V(5)9'	15
6	Meter Offset	PIC'S(10)9V(5)9'	16
7	Pulse Offset	PIC'S(10)9V(5)9'	16

Third Header Record Format

ELEMENT	DESCRIPTION	ATTRIBUTES	LENGTH IN BYTES
1	Sort Code	PIC '9999'	4
2	Descriptor	CHAR(40)	40
3	Alternate Pulse Multiplier (≥ 1.0)	PIC'V(15)9'	15
4	Population	PIC'(9)9'	9
5	Weight	PIC'(7)9V(5)9'	12

Fourth Header Record Format

ELEMENT	DESCRIPTION	ATTRIBUTES	LENGTH IN BYTES
1	Sort Code	PIC '9999'	4
2	Descriptor	CHAR(40)	40
3	Peak Day	CHAR(14)	14
4	Old Key	CHAR(14)	14
5	Filler	CHAR(8)	8

Data Record Format

ELEMENT	DESCRIPTION	ATTRIBUTES	LENGTH IN BYTES
1	Sort Code	PIC '9999'	4
2	Interval(12)		(12)*6
	Load Data Array	PIC'999999'	5
	Status Array	CHAR(1)	1
3	Filler	CHAR(4)	4

Enhanced Input/Output Record Formats

First Header Record Format

ELEMENT	DESCRIPTION	COMMENT	LENGTH IN BYTES
1	Sort Code	Must be 00000001	8
2	Customer Identifier		64
3	Channel	Max is 32767	5
4	Start Time	YYYYMMDDHHMMSS	14
5	Stop Time	YYYYMMDDHHMMSS	14
6	DST Participant Flag	Y/N/A	1
7	Validate Record Flag	Y/N	1

Second Header Record Format

ELEMENT	DESCRIPTION	COMMENT	LENGTH IN BYTES
1	Sort Code	Must be 00000002	8
2	Meter Start Reading	Non-negative Numeric	
3	Meter Stop Reading	Non-negative Numeric	
4	Meter Multiplier	Positive Numeric	
5	Meter Offset	Numeric	
6	Pulse Multiplier	Positive Numeric	
7	Pulse Offset	Numeric	
8	Seconds per Interval	Positive Numeric	
9	LODESTAR UOM	Numeric	
10	Basic Unit Code	Positive Numeric	
11	Times Zones	Numeric	
12	Population	Positive Numeric	
13	Weight	Positive Numeric	
14	Time Zone Standard Name	CHAR (32)	32

Third Header Record Format

ELEMENT	DESCRIPTION	COMMENT	LENGTH IN BYTES
1	Sort Code	Must be 00000003	8
2	Descriptor		80

Fourth Header Record Format

ELEMENT	DESCRIPTION	COMMENT	LENGTH IN BYTES
1	Sort Code	Must be 00000004	8
2	Timestamp		17
3	Origin	C, M, P, or S (Optional)	1

Data Record Format

ELEMENT	DESCRIPTION	COMMENT	LENGTH IN BYTES
1	Sort Code	10000000 - 99999999	8
2	Interval Value		
3	Oracle Utilities Load Analysis Status Code		1
4	Interval Start Time	YYYYMMDDHHMMSS	14

Note: For more information about Enhanced Input/Output Format, please see Appendix B of the Oracle Utilities Energy Information Platform Installation and Configuration Guide.



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