Quick Reference Guide, Release 1.11.1.3

Oracle Utilities Load Analysis

Format Conventions

The formats for creating input files use the following conventions:

Element	Meaning
KEYword	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.
time1	Variable names or other information that you provide appears in italics.
DEFault	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
X850	Data File Query
X860	Data File Record Definition
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*

DATe [*start–time*] [*stop–time*]

DIP [*n* | 0 [*p*% | 50%]]

ENErgy [**OFF** | *e1,e2* | 0.98,1.02]

EXEmpt [*ValidationTest UOM1 UOM2 ... UOMn*]

HIGh *n.n* [*i* | 0]

LOW *n.n* [*i* | 0]

METer [*m1,m2* | 1,1]

MULtiplier [*n.n* | 1.0]

NNS [*Non-normal status codes*]

NONnormal [*n* | 0] [CON]

OUTage [*k* | 0] [CON]

REPort [**CUTs** | **SERies**]

SPIke [*n* | 0] [*p*% | 50%]

STA [*status code list*]

TIMe [[*mm1*][*:ss1*],[*mm2*][*:ss2*] | 60,15]

WARning DES1 *name start length . . .***DES5** *name start length* **STAtus** *status-codes*

ZERo [*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*

COPy *key1* **TO** *key2*

EGAp *custid*, *channel* [*start-time*] [*stop-time*]

ERAse *key*

KEY *customer-id*, *channel(s)*, *start-time* [**,ORIGINAL**]

NEW *custid channel start stop* **FROM** *custid channel start* [*meter start*] [*meter stop*]

REStore *key*

SPLit *key* **AT** *time* [**NEWkey** *customer-id* [,*channel*]] **METer** *value* [**NEWkey** *customer-id* [,*channel*]]

†Correction Commands—

ADDition {*time1* | **START**}{*time2* | **STOP**} *z*

AVErage [*start* | **APPend**] [*stop* | *#ints*] [**I** | **O**] [**AW** | **AD**] [**W1** *Start* | -3] [**W2** *Stop* | 3] [**Q** [*q* | 8]] [**S** [*s* | J]]

CALculate

DELete {*time1* | **START**} {*time2* | **STOP** | **DO** *n*}

INSert {*time1* | **APPend**} {*time2* | **DO** *n*} {**Value** *z* | **From** *key* **AT** *time3*}

INTerpolate *time1* {*time2* | **DO** *n*} [**Q** [*q* | 8]] [**S** [*s* | J]]

MODify *time* [**Status** *s*] **Value** *z1* [*z2 z3... z29*]

MULtiply {*time1* | **START**}{*time2* | **STOP**} *n*

OVErwrite *time1* {*time2* | **DO** *n*}{**Value** *z* | **Status** *s* | **Value** *z* **Status** *s* | **From** *key* **AT** *time3*}

PROrate STAtus [*s* | *] [**MAX** *x* | 32760] [**MIN** *n* | 0] [**MET** *ngy*]

READing *time r* [*#dials* [.*#decimals*]]

REMark [*remark*]

SET *field value*

SMOoth [**HIGh** | **LOW**] [**Value** *z* | 0] [**DO** *n* | 1] [**Status** *s* | **K**]

STAtus {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 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

AGGregate [*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’]]
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
SCHedule [*t* | 0]
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

Control File—TGX47A

customer-id, channel

Environment File—TGX47B

DATe *cut-off time*
SELect [**ALL** | **KEY**]

X480 —Validation Statistics Reporter

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**]
OUTput [**FIXed** | **CSV**]
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 [**NOReset** | **RESet**]
SELect [**ALL** | **KEY**]

X670 —Proxy Day Selection

Environment File—TGX67B

DATe *start-time stop-time*
DAYtype [**DT** | **DOW** | **ANY**]
DEG *#degrees* [**AVG** | **MAX**] [**MISsing** *#hours*]
HOLiday
INEligible
KEY *custid*, *channel*, *start-time*
MAGnitude [*weight*]
MERge [**YES** | **NO**]
NUM *n*
OUTput [**CSV** | **LSE** | **XML** | **GRAph**]
PEAk [**MINutes**]
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**]

AGGregate [*n* | 0]

CDAt *start-date stop-date*

CSV

DAIly [**SENdout** [*h* | 0]] [**BINary** | **CHAracter** [**CUSTid** *c*] [**MULtiplier** *m*] [**FOR** *x.y* | **FOR 7.3**] [**COMmas** | **BLAnks**] [**HEAder** | **NOHeader**] [**TIMezone** *t*] [**DATe** *date format*]]

DATe *start-date stop-date*

INP

LSE

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

ONErecord

QUAlity [‘*q*’ | ‘8’]

ROLling [*n* | 3600 [‘*q*’ | ‘8’]]

SOUrce [**CLDB** [**BOTH**] [2] | **ALDB** [2]]

STAtus [**NO** | **YES**]

VALidateCut [YES | NO]

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*)

Note: Refer to the *Oracle Utilities Load Analysis Load Data Management User's Guide* for information about other functions.

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 [**NORmal** | **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), LODESTAR unit of measure, basic unit code, time zones west of GMT, population, 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**]

FULIintervals [**CODe** | **ADJ**] [**DESc** | **NODesc**]
LOAd [**REPlace**][**KEY**][**24Hradj**][**IDLength** *nn*]

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 AnalysisType

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

AGGregate [300 | 900 | 1800 | 3600]

DATe *mm/dd/yy mm/dd/yy*

LENgth [*n* | 40]

PROrate [**YES** | **NO**]

REPlace [**YES** | **NO**]

QUAlity [‘*s*’ | ‘8’]

TYPe [**MPU** | 100% | **DMPu** | **DRAtio** | **RATio**] [**NOCalculate** | **CALculate**]

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

AGGregate [*n* | 3600]

DATe *start-date stop-date*

DROp *d*%

MER [**YES** | **NO** | **EXClude**]

PRInt [**ECOnomize** | **FULl**]

REPort [**INComplete** | **ALL**][**TRIal**][**CSV**]

SOUrce [**ALDB** [2] | **CLDB** | **BOTH** [2]]

Y310— Standard Load Analysis

Control File—TGY31A

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

Environment File - TGY31B

AGGregate [*n* | 3600]

ALPha [5% | 10%]

ASSign [**FIXed** [*comment* | **KWH**] | **FLOat** [**LF** | **KW** | **KWH**]]

BILling [YES | NO]

COMbined total-population-billed-energy

DATe *start-date stop-date*

DROp [*d*% | 100%]

GRA

GROup *title*

KEY [*key* | STAR]

MINinum [0 | **ZERo** | **NONZero**]

PEAk {*peak-time* | *custid channel*} *[descriptor]*

PROrate [**YES** | **NO**]

QUAlity [‘*q*’ | ‘8’]

REPort [**PRELiminary** | **NOStrata** | **NOEvaluation** | **COMplete]**
[**AVERage**][**PEAk**][**MINimum**][**CD**][**MCD**][**NCD**][**ENErgy**] [**FACtor**][**DAIly**][**ICS**][**ENTire**][**PREcision**][**STRatum**]

ROLling *n* [‘*q*’ | ‘8’]

SCHedule [*t* | 0]

SEAson [*s* | 0] [,**NOPrint** | ,**PRInt**]

SKIp

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

TOTalpopulation *n*

WRIte [**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

-
-
-

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 [**NOEvaluation** | **COMplete**] [**ENTire**][**AVErage**][**PEAk**][**MINimum**][**NCD**][**ENErgy**] [**FACtor**]

SCHedule [*t* | 0]

SEAson [*s* | 0] [**NOPrint** | **PRInt**]

WRIte [**NO** | **COMplete**][**ENTire**][**AVErage**][**PEAk**][**MINimum**][**NCD**][**ENErgy**][**FACtor**]

Y330— Ratio Analysis

Control File—TGY33A

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

Environment File—TGY33B

AGGregate [*n* | 3600]

ALPha [5% | 10%]

ASSign [**FIXed** [*comment* | **KWH**] | **FLOat** [**LF** | **KW** | **KWH**]]

BILling [**YES** | **NO**]

DATe *start-date stop-date*

DROp [*d*% | 100%]

COMbined *total-population-billed-energy*

GRA

GROup *title*

KEY [*key* | STAR]

MINinum [0 | **ZERo** | **NONZero**]

PEAk {*peak-time* | *custid channel*} *[descriptor]*

PROrate [**YES** | **NO**]

QUAlity [‘*q*’ | ‘8’]

REPort [**PRELiminary** | **NOStrata** | **NOEvaluation** | **COMplete**]
[**CMB**][**AVERage**][**PEAk**][**MINimum**] [**CD**] [**MCD**] [**NCD**]
[**ENErgy**] [**BILl**][**FACtor**][**DAIly**][**ICS**][**ENTire**][**PREcision**]

ROLling *n* [‘*q*’ | ‘8’]

SCHedule [*t* | 0]

SEAson [*s* | 0] [,**NOPrint** | ,**PRInt**]

SKIp

STRata [*stratum-number* | 1 [*strata-billed-energy* [*boundary* | **INFinity**
[*population* | 0 [weight | 0-0]]]]]

TOTalpopulation *n*

WRIte [**NO** | **NOStrata** | **COMplete**]
[**AVERage**][**PEAk**][**MINimum**][**CD**][**MCD**][**NCD**][**ENErgy**]
[**FACtor**][**ENTire**]

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*

BILling [**NO** | **YES**]

DATe *start-date stop-date*

DROp [*d*% | 100%]

GROup *title of customer class*

PEAk1 *peak-time*, [*population billed energy*] [*d*%] [*w#*]

PEAk2 *peak-time*, [*population billed energy*] [*d*%] [*w#*]

...

PEAkn *peak-time*, [*population billed energy*] [*d*%] [*w#*]

PERiod *title of analysis period*

QUAlity ['*q*' | '8']

REPort [**NOStrata** | **NOVarcov** | **COMplete**]

SOUrce [**BOTH** | **ELDB** | **ALDB**]

STRata *Strata-number peak-period-number* [*bound* | **INF** [*population* | 0 [*weight* | 0.0]]]

TYPe [**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

AGGregate [*n* | 3600]
ALPha [5% | n%]
ASSign [**FIXed** [*comment* | **KWH**]]
BILling [YES | NO]
CLAss
COMbined [population-billed-energy]
DATe *start-date stop-date*
DOMain *n* [*title*]
DROp [*d*% | 100%]
ENErgy domain-number [domain billed energy | 0] [domain population]
GRA
GROup *title*
KEY [*key* | STAR]
MINinum [0 | **ZERo** | **NONZero**]
PEAk *peak-time*
POPulation *stratum-number domain-number domain-population-in-stratum*
PROrate [**YES** | **NO**]
QUAlity [‘*q*’ | ‘8’]
REPort [**PREliminary** | **NOStrata** | **NOEvaluation** | **COMplete**]
[**AVErage**][**PEAk**][**MINimum**][**CD**][**MCD**]
([**NCD**][**ENErgy**]) [**FACtor**][**DAIly**][**ICS**][**ENTire**]
[**PREcision**][**STRatum**]
ROLling *n* [‘*q*’ | ‘8’]
SCHedule [*t* | 0]
SEAson [*s* | 0] [,**NOPrint** | ,**PRInt**]
STRata [*stratum-number* | 1 [*boundary* | **INFinity** [*population* | 0
[weight | 0-0]]]]
TOTalpopulation *n*
WRIte [**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

Y360— Domains Analysis Ratio (Analysis Bundle)

Control File—TGY36A

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

Environment File—TGY36B

AGGregate [*n* | 3600]

ALPha [5% | n%]

ASSign [**FIXed** [*comment* | **KWH**]]

BILling [**YES** | **NO**]

CLAss

COMbined [*population-billed-energy*]

DATe *start-date stop-date*

DOMain *n* [*title*]

DROp [*d*% | 100%]

ENErgy *n* [*domain billed energy* | 0] [*domain population*]

GRA

GROup *title*

KEY [*key* | STAR]

MINinum [0 | **ZERo** | **NONZero**]

PEAk *peak-time*

POPulation *stratum-number domain-number domain-population-in-stratum*

PROrate [**YES** | **NO**]

QUAlity [‘*q*’ | ‘8’]

REPort [**PREliminary** | **NOEvaluation** | **COMplete**]
[**AVErage**][**PEAk**][**MINimum**][**CD**][**MCD**]
[**NCD**][**ENErgy**][**FACtor**][**DAIly**][**ICS**][**ENTire**]
[**PREcision**]

ROLling *n* [‘*q*’ | ‘8’]

SCHedule [*t* | 0]

SEAson [*s* | 0] [,**NOPrint** | ,**PRInt**]

STRata [*stratum-number* | 1 [*strata-billed-energy* [*boundary* | **INFinity**
[*population* | 0 [weight | 0-0]]]]]

TOTalpopulation *n*

WRIte [**NO** | **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

-
-
-

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**]

AGGregate [*n* | 0]

AVGreport [*Avg1* [,*Avg2* [,*Avg3* ....[,*Avg8*]]] | **NO** | **COMplete**]

DATe [**CUT** | *start-time stop-time* [**MONthly** [**SUMmary**]]]

GROup *title*

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

PAGinate [**NO** | **YES**]

PEAk *peak-time*

PROrate [**YES** | **NO**]

QUAlity [‘*q*’ | ‘8’]

ROLling *n* [‘*q*’ | ‘8’]

SCHedule [**DEMand** | *t* | 0]

SEAson [*s* | 0]

SKIp

TOUreport [**NO** | **YES**]

WRIte [**TOU** | **AVErage** | **NO** | **COMplete**] [**SEParate**]* [**HEA**der]
* **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

AGGregate [*n* | 3600]

DATe *start-date stop-date*

GRA

GROup *title*

KEY [*key* **| STAR]**

MINinum [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**]

ROLling *n*

SCHedule [*t* | 0]

SEAson [*s* | 0]

SKIp

STRata *stratum-number* [*comment*]

WRIte [**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*

AGGregate [*n* | 0]

FILe [**NO** | **YES** [**BLOCK** | **NOBlock**] [**HEAder**]]

Y420— Load Data Reporter (ELDB)

Control File —TGX41A

customer-id, *channel* [,*start-time*] [,**ENErgy**] [,**DEMand**]
[**SCHedule** [*n* | 0]] [,**AGGregate** [*n* | 0]]
[,**ROLling** [*n* | 3600 [‘*q*’ | ‘8’]]]
[,**PEAk**][,**MINimum**][,**DAIly**][,**SUMmary**]

Environment File—TGX41B

ACTive
*** AGGregate** [n | 0]
DAIly
DATe [*start-time*] [*stop-time*]
DEMand [**SPReadsheet** | **NOSpreadsheet**] [**NOReport** | **REPort**]
ENErgy [**SPReadsheet** | **NOSpreadsheet**] [**NOReport** | **REPort**]
INActive
MINimum
NUMber [10 | 50]
ORIginal
PEAk [*n* | 10]
*** ROLling** [*n* | 3600] [‘*q*’ | ‘8’]
*** SUBset** [**YES** | **NO**]
SCHedule [*t* | 0]
SEAson [*s* | 0 [,**PRInt** | ,**NOPrint**]]
SEParate [**PEAk**] [,**MINimum**]
SOUrce [**ELDB** [**BOTH**][2]]
SUMmary
XML
*** 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

s*eason-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*]
AGGregate [*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*] [**SKIp** *n* | **PAGe**]

Environment File—TGX43B

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**] | [**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*’ | ‘8’]

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)

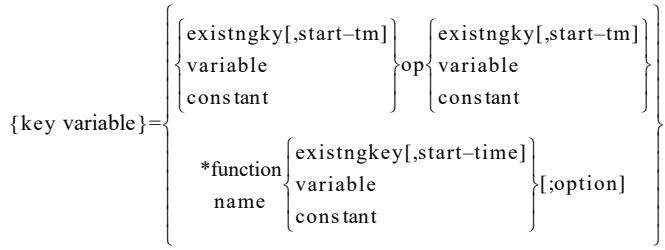
SOUrce {**SLDB**} [**STAtistics**]

Y620— Load Data Transformation (ELDB)

Control File—TGY62A

BLOck

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



*See Transformation Functions, next page.

Environment File—TGY62B

AGGregate [*n* | 3600]

DATe *start-time stop-time*

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

QUAlity [‘*q*’ | ‘8’]

STOP [NO [IGNore] | YES]

TRIal

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

CLAss $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **CLA**ss (sample-level analysis-statistic)

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

DURation $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **DUR**ation$\left(\left\{\begin{matrix}\text{exstngkey[,start]}\\\text{variable}\\\text{constant}\end{matrix}\right\}\right)$

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

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

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

PERcent $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **PER**cent$\left(\left\{\begin{matrix}\text{exstngkey[,start]}\\\text{variable}\end{matrix}\right\}\right)$

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

ROLling $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **ROL**ling$\left\{\begin{matrix}\text{exstngkey[,start]}\\\text{variable}\end{matrix}\right\}\left[\begin{matrix};\text{spi}\\;3600\end{matrix}\right]$

SQRt $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **SQR**t$\left(\left\{\begin{matrix}\text{key}\\\text{variable}\\\text{constant}\end{matrix}\right\}\right)$

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

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

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

MAXimum $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **MAX** (<key or variable>;<ceiling>)

MINimum $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **MIN** (<key or variable>;<floor>)

AVErage Non-Missing $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **ANM** (<key or variable>)

COUnt $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **COU** (<key or variable>)

SUMmation $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **SUM** (<key or variable>)

ABSolute Value $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **ABS** (<key or variable>)

VALue $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **VAL** (<key or variable>;date-time)

PROrate $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **PRO** (<key or variable>;date-time)

SPF $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **SPF** (totalkwh;location;rampspi;[CSV])

EVEn Allocation $\left\{\begin{matrix}\text{key}\\\text{variable}\end{matrix}\right\}$ = **EVN** (energy – to – evenly – allocate)

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

Y710— Statistical Package Interface (ELDB)

Control File—TGY71A

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

Environment File—TGY71B

AGGregate [*n* | 3600]

DATe *start-time stop-time*

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

QUAlity [‘*q*’ | ‘8’]

SOUrce {**ELDB**}

Y720— Direct Output (ELDB)

Control File—TGY72A

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

Environment File — TGY72B

24Hradj [**YES** | **NO**]
AGGregate [*n* | 0]
CDAt *start-date stop-date*
CSV
DAIly [**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*

AGGregate *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 (**COUNT**1)

usage-variable > x_2.0 F (**COUNT**2)

usage-variable > x_3.0 F (**COUNT**3)

....

usage-variable > x_n.0 F (**COUNT**N) **T** (**COUNT**n+1)

Formats:

End:

Format statements—

' x_n.0' **COUNT**n **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 a_1, a_2, …a_n b value

Dimensions based on usage variables—

usage variable > strata lower bound **T(COUNT** $99_{\mathbf{n}}$**) F** (label)

Dimensions based on demographic or categorical variables——

demographic value = 'value' **T(COUNT**$99_{\mathbf{n}}$**,** label for next series)
F(COUNT$99_{\mathbf{n}}$**,** 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* | 0]

MEAN [*demand*]

STRata [**FIXed** | *m n* | 0 7]

B320— Multi-Dimensional Sample Design

Population Statistics File—TGB32A

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

Environment File—TGB32B

DESign {**FIXed** *sample-size* | **OPTimal** *precision level-of-confidence* | **OPTimal COEfficient** *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$_{1\ldots n}$ **T(COUNT**$_{991}$**)F(CELL)**

Dim1 n b usage-variable

File Statements—

Y$_{1\ldots n:}$ **STRATA** = **Y**$_{1\ldots n}$ **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 v*oltage-level-prefix* {**CUT** *recorderid channel* [*fixed-loss*] | *variable-loss* [*fixed-loss*] [**LOAd** *peak-load*] }

PEAk *peak-time*

REPlace

SCHedule [n | 0]

TITle *text*

{**VARiable** | **FIXed-variable** [**ENVironment** | **RATe**]}

{**PROportional** | **STAndard** | **ADD** *rate-class-prefix*}

VERsion [n | 0]

WRIte [**INItial** | **PREmise** | **NONe** | **ALL**]
[**AVE**][**CD**][**ENE**][**MAX**][**MCD**][**MIN**]

Rate File—TGG21C

Report Format Commands

[**MW** | **KW**]

DECimal [n | 0]

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*, *descriptor3*, *rate-class-prefix1*, … *rate-class-prefixN* [,**NOStatistics**]

System Record Format—

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

mmddyyhhmm (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

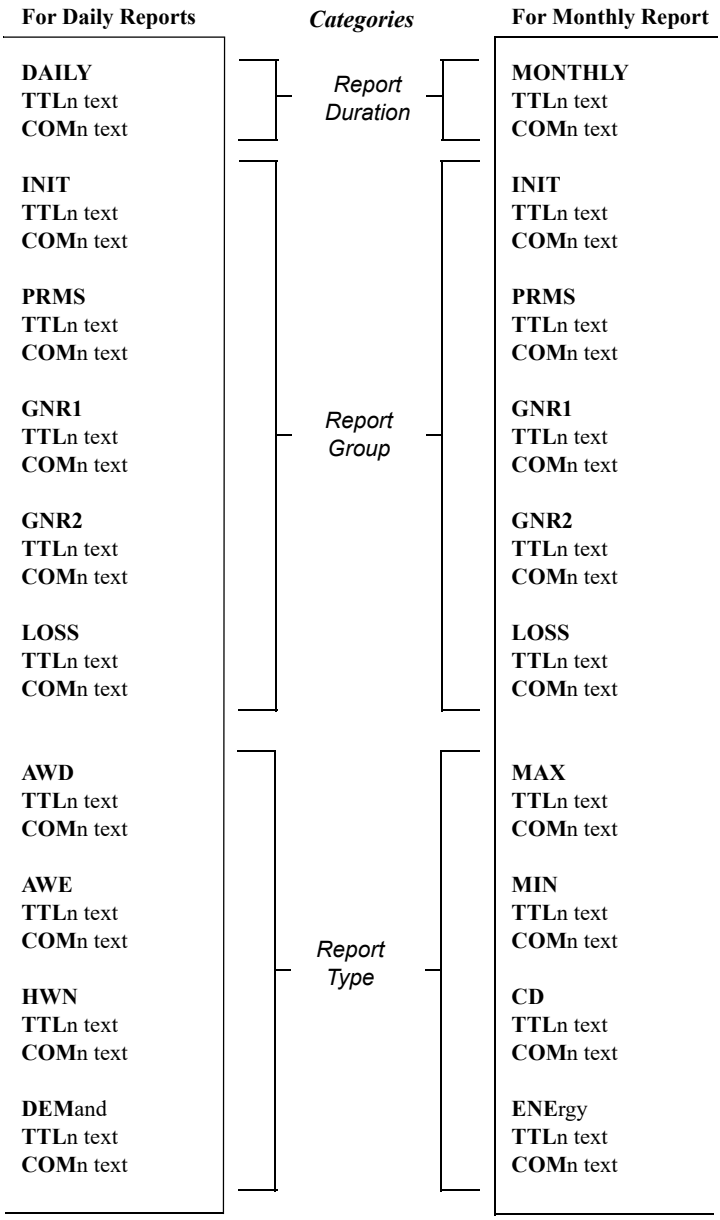
CD
ENErgy
MAXimum
MINimum

TTL *n text*
COM *n text*

(Continued Next Page)

G410— COSI Rates Reporter (Continued)

Format for Title File



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**][,**MAXimum**][,**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

CUStomer [**AVErage** | **MONth** *month-name* |
INPut *rate-class-prefix1 pop1*
rate-class-prefix2 pop2
rate-class-prefixN popN
END]

DATe *start-date1 stop-date1* [*start-date2 stop-date2*]

DEMand [**CD** *n* | **NCP** | **AVE** *n* | **EOM** *n* | **ALL** *n* | **SEP** [*n* | 1]]

GROup [**PRMS** | **GNR1** | **GNR2**]

PAGe [*n* | 60]

PEAk *mm/dd/yy—hh:mm*

SCHedule [*n* | 0]

SEAson [*n* | 0]

SOUrce [**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:

Field Name	Format, Length	Contents
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:

Field Name	Format, Length	Contents
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)		MMDDYY of system Minimum
DATE	PIC '999999'	
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:

Field Name	Format, Length	Contents
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:

Field Name	Format, Length	Contents
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:

Field Name	Format, Length	Contents
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:

Field Name	Format, Length	Contents
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

Field Name	Format, Length	Contents
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:

Field Name	Format, Length	Contents
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:

Field Name	Format, Length	Contents
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)

AVERAGE AND EXCESS RECORD:

Field Name	Format, Length	Contents
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:

Field Name	Format, Length	Contents
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 (Aveage 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 ths 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:

Field Name	Format, Length	Contents
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 procesing 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* | 0]

VERsion [*n* | 0]

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

Code	Description
01	KWH
02	KW
03	KVARH
04	KVAH
05	TEMP (°F)
06	KQD
07	V^2H (PTP)
08	KQH
09	KQH (45 degrees)
10	I^2H
11	Volts
12	Amps
13	TEMP (°C)
14	Dew Point
15	Amplitude
16	Miscellaneous
17	Minute Run Time (MRT)
18	Wind Velocity (cms)
19	V2H (PTN)
20	Percent
21	Flow
22	KVAR
23	KVA
24	KVA Ratio
25	Power Factor
26	Hertz
27	Feet
28	Minutes
29	On/Off (Tap Position)
30	Inches
31	Individual KWH
32	KWH r
33	Individual Totalized KVARH
34	KVARH r
35	Individual Totalized Temp (°F)
36	KVAH r
37	Individual Totalized V^2H
38	Individual Totalized KQH
39	KQH r
40	Miscellaneous — Average
41	Individual Totalized Volts
42	Individual Totalized Amps
43	Individual Totalized Temp (°C)
44	MW (Substation only)
45	MVAR (Substation only)
46	MVA (Substation only)
47	Individual Totalized MRT
48	Individual Totalized CMS
49	Run Hours
50	EQV.FULL LD Hours
51	KWH-Out
52	KW-Out
53	KVARH-Out
54	KVAH-Out
55	KQH-Out
56	Leading KVARH
57	Leading KVARH-Out
58	Lagging KVARH
59	Lagging KVARH-Out
60	Gallons Per Minutes (GPM)
61	BTU
62	Therms
63	Cubic Feet Per Minute (CFM)
64	Cubic Feet Per Second (CFS)
65	WM^2
66	Relative Humidity (RH)
67	MPH
68	THI
69	Gallons
70	Cubic Feet
71	Temp Difference
72	KVAR-Out
73	KVA-Out
74	Knots
75	Degrees
76	Hundred Cubic Feet (Gas)
77	Cubic Feet Per Hour (Gas)
78	Pounds Per Square Inch
79	Dollars
80	Decatherms (DTH)
81	Pounds
82	Pounds Per Hour
83	MPounds
84	MPounds Per Hour
85	Dollars Per KWH
86	Dollars Per MW
87	Dollars Per MWH
88	Dollars per Hour
89	Volt Hours
90	Individual Totalized Cubic Feet
91	Individual Totalized BTU
92	Pressure in Millibars
93	Visibility in Miles
94	Cents per KWH
99	Individual Totalized Gallons
100	MWH
102	Euros
103	Euros per MWH
104	Euros MW
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	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 mmddyyhhmm
status	single alphanumeric value
stop-time	mm/dd/yy-hh:mm or mmddyyhhmm
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 mmddyyhhmm
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'99999'	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	Postive Numeric	
5	Meter Offset	Numeric	
6	Pulse Multiplier	Postive Numeric	
7	Pulse Offset	Numeric	
8	Seconds per Interval	Postive 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.

Oracle Corporation