#!/bin/ksh

#-------------------------------------------------------------------------

# TITLE : aedc\_AlexLdProfile\_for\_MonthlyPeakDay.ksh

# PURPOSE : To determine the day ofpeak of Alex and report its load profile

# hourly

#

#

# GROUP : SCC

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#--------------------------------------------------------------------------

. /aedc/etc/work/aedc/SCC/aedc\_SCC\_functions

mktime `date +'%Y/%m/%d:00:00:00'`|awk '{print $1-60\*60\*24}'|read yes\_sec

clear

do\_all (){

echo "

Alexandria Load Profile

$PkDay\_titel

$sub\_titel

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| Time | Alexandria load Profile |

| |-----------------------------------------------|

| hh:mm | MWatt | MVar | MVA | PF |

|\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|" |tee $SCCTMP/LdProf\_outFl

cat $SCCTMP/tm\_val|awk -v pf="-" -v Mvar="-" '{if ( $2 !="-" && $3 !="-" && $3>$2 ) {

{ if ( $2 > Max ){Max=$2 ; hr=$1 ;Mvar=sqrt(($3^2)-($2^2));Mva=$3 ;pf=$2/$3}}

{printf(" | %5s | %7.1f | %7.1f | %7.1f | %7.3f |\n",$1,$2,sqrt(($3^2)-($2^2)), $3, $2/$3 )}}

else

{printf(" | %5s | %7.6s | %7.6s | %7.6s | %7.5s |\n",$1,$2,"-", $3, "-" )}}

END{printf(" |\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\n | Max Load At:\n | %5s | %7.1f | %7.1f | %7.1f | %7.3f |\n |\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_|\n",hr ,Max ,Mvar,Mva,pf)}'|

tee -a $SCCTMP/LdProf\_outFl

echo $Note|tee -a $SCCTMP/LdProf\_outFl

}

do\_mw () {

echo "

Alexandria Load Profile

$PkDay\_titel

$sub\_titel

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| Time |Alexandria load Profile |

| |------------------------|

| hh:mm | MWatt |

|\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|" |tee $SCCTMP/LdProf\_outFl

cat $SCCTMP/tm\_val|awk '{if ( $2 !="-" ) {

{ if ( $2 > Max ){Max=$2 ; hr=$1}}

{printf(" | %5s | %12.1f |\n",$1,$2)}}

else

{printf(" | %5s | %12.6s |\n",$1,"-" )}}

END{printf(" |\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\n | Max Load At:\n | %5s | %12.1f |\n |\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\n",hr ,Max)}'|

tee -a $SCCTMP/LdProf\_outFl

echo $Note|tee -a $SCCTMP/LdProf\_outFl

}

echo " Your Selection :

1) Profile of a specific day

2) Profile of peak day in a specific month

"

read ch?" Ur choice is : "

case $ch in

1)

var\_asctime ${yes\_sec} "%d/%m/%Y"|read sugg\_day

read day?" Enter a day on the form < $sugg\_day > : "

if [ -z "$day" ]

then

day=$sugg\_day

fi

echo ${day} |awk 'FS="/"{print $3"/"$2"/"$1}'|read Day

mktime ${Day}:00:00:00 | read strt\_sec

var\_asctime $strt\_sec "%A %d %B %C%y" | read PkDay\_titel

sub\_titel=""

echo "select C0401\_aid from T0401\_accounts where C0401\_name = 'ALEX.TOTAL\_MWA<HMAX'

go"|isql -Udbu -Pdbudbu | { read ; read ; read mw\_acc\_id ;}

#mw\_acc\_id=8537

;;

2)

echo "$yes\_sec"|awk '{print $1-30\*60\*60\*24}'|read mon\_sec

var\_asctime $mon\_sec "%m/%Y"|read sugg\_mon

read mon?" Enter a month on the form < ${sugg\_mon} > : "

if [ -z "$mon" ]

then

mon=$sugg\_mon

fi

echo $mon | awk 'FS="/"{printf("/home/sis/REPORTS/MONTHLY\_MAX\_VALUE/%s/%s\_%s.ld.Z\n",$2,$2,$1)}' |read InFilePK

echo $mon|awk 'FS="20"{print$1$2}'|read mmyy

if [ ! -s ${InFilePK} ]

then

echo "

${InFilePK} ( File does not exist) .....

Creating from DataBase....... "

echo "select C0401\_aid from T0401\_accounts where C0401\_name = 'ALEX.TOTAL\_MWA<HMAX'

go"|isql -Udbu -Pdbudbu | { read ; read ; read mw\_acc\_id ;}

echo "

select C0434\_value , C0434\_date ,C0434\_status from T0434\_peak\_data where C0401\_aid=$mw\_acc\_id

and C0434\_status & 8 = 8 and

substring(convert(char(8),dateadd(second,C0434\_date,'${offset}'),3),4,5)='$mmyy'

go"|isql -Udbu -Pdbudbu |sort -r -n -k 1|head -1| awk '{print $1"\n"$2}'| { read val ; read dd ; }

#echo $val $dd

else

zcat ${InFilePK} | grep "ALEX.TOTAL\_MWA" | grep -v MINIMUM | awk 'FS="@"{print $1"\n"$5}' | { read mw\_acc\_id ; read dd ; }

#zcat $InFilePK | grep "ALEX.TOTAL\_MVA" | grep -v MINIMUM | awk 'FS="@"{print $1}' | read mva\_acc\_id

fi

var\_asctime $dd "%A %d %B %C%y" | read PkDay\_titel

var\_asctime $dd "%C%y/%m/%d" | read PkDay

sub\_titel="( `echo ${PkDay\_titel}| awk '{print $3$4}'` PeakDay )"

Day=${PkDay}

;;

\*)

echo "Bad Choose .... "

exit

esac

date1\_asc="${Day}:00:00:00"

date6\_asc="${Day}:23:59:59"

Note=""

echo $Day|awk 'FS="/"{print $1"\_"$2}'|read Month

mktime $Day:00:00:00|read ascDay

var\_asctime $ascDay 'CutOff%b%Y'|read Cutfile

##############CuttOff Add

if [ -s /home/sis/REPORTS/DAILY\_MAX\_VALUE/$Month/${Cutfile} ]

then

echo $Day|awk 'FS="/"{print $1"\_"$2"\_"$3}'|read day

if [ ! -z `grep "^${day}" /home/sis/REPORTS/DAILY\_MAX\_VALUE/$Month/${Cutfile}` ]

then

grep "^${day}" /home/sis/REPORTS/DAILY\_MAX\_VALUE/$Month/${Cutfile}|awk '{print $2}'|read Cut

echo ${Cut}

Note="Note : + ${Cut} MW"

fi

fi

echo "

===================================================

1) Load Mwatt Only

2) Load [ Mwatt , Mvar , MVA , PF ]

"

read typ?" Select Profile Type : "

read bdst?" Ignoring Value Status ( y/n ) : "

if [ -z "${bdst}" ]

then

bdst="n"

fi

#Gd\_Vl="8 9 10 12 13 14 40 44 46 136 137 140 142 168 172"

#echo "${Gd\_Vl}" |awk '{print "-v st1="$1, "-v st2="$2 ,"-v st3="$3,

#"-v st4="$4, "-v st5="$5 , "-v st6="$6 , "-v st7="$7,

#"-v st8="$8, "-v st9="$9 , "-v st10="$10 ,

#"-v st"11"="$11 ,"-v st"12"="$12 ,"-v st"13"="$13 ,"-v st"15"="$15}'|read STAT

filter\_acc\_date\_range -i ${mw\_acc\_id} > /dev/null # out\_file is /aedc/tmp/scc/aedc/ALEX\_LD

mv /tmp/scc/aedc/Filter\_pkacc /tmp/scc/aedc/ALEX\_LD

if [ "${bdst}" != "y" or "${bdst}" != "Y" ]

then

cat /tmp/scc/aedc/ALEX\_LD |while read ln # from /aedc/tmp/scc/aedc/ALEX\_LD

do

echo $ln |awk -v st=${bdst} 'OFS="\n"{ mw="-" ; mva="-"}

{if(( $7==8 || $7==9||$7==10 || $7==12|| $7==13 ||

$7==14 || $7==40|| $7==44 || $7==46 || $7==136 || $7==137 ||

$7==140|| $7==142 || $7==168 || $7==172 ) && $4 > 0 )

{mva=$4}

{if(( $6==8 || $6==9||$6==10 || $6==12|| $6==13 ||

$6==14 || $6==40|| $6==44 || $6==46 || $6==136 || $6==137 ||

$6==140|| $6==142 || $6==168 || $6==172 ) && $3 > 0 )

{mw=$3}}

{print $2, mw,mva}}'| { read tm ; read val ; read val\_mva ; }

echo `var\_asctime $tm "%H:%M" ` ${val} ${val\_mva}

done > ${SCCTMP}/tm\_val

else

echo "Ignoring Status ...."

cat /tmp/scc/aedc/ALEX\_LD |while read ln # from /aedc/tmp/scc/aedc/ALEX\_LD

do

echo $ln |awk 'OFS="\n"{ mw="-" ; mva="-"}

{if($4 > 0 ){mva=$4}

{if( $3 > 0 )

{mw=$3}}

{print $2, mw,mva}}'| { read tm ; read val ; read val\_mva ; }

echo `var\_asctime $tm "%H:%M" ` ${val} ${val\_mva}

done > ${SCCTMP}/tm\_val

fi

case $typ in

1)do\_mw ;;

2)do\_all ;;

\*) exit

esac

#grep -v -p Alexandria $SCCTMP/LdProf\_outFl

\_PRT $SCCTMP/LdProf\_outFl