#!/bin/ksh

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

IN\_FILE=/aedc/data/dbgen/SCC/SCC\_ACC/SCCacc\_15MIN\_in\_SS\_VOLT.dat

OUT\_FILE=${SCCTMP}/SS\_VoltExd

tail\_FLG="false"

SCCCNF=/aedc/cnf/scc

echo " Substation TR Voltage exceeded limit kV" | tee ${OUT\_FILE}

print -n "" > ${OUT\_FILE}\_sub

read dev?"Enter voltage limit % dev. (<CR> default : 5 ) >> "

if [ -z "${dev}" ]

then

dev=5

fi

enter\_range

grep -w -e NAME -e DESCRIPTION $IN\_FILE | awk '{if ($1=="NAME"){printf("%s\t",$3)}

else

print $5}'| awk 'FS="."{if (NF==3)print $0}'|sed 's/\./ /2'|

awk 'OFS="\t"{print $1,$3}'| sort > $SCCTMP/acc\_list1

read filter?" Are you interrest in certain SS ?

E for East E-SS for TEL-East only

M for Middle M-SS for TEL-Middle only

W for West W-SS for TEL-West only

<CR> for all

>> "

if [ -z "${filter}" ]

then

cp $SCCTMP/acc\_list1 $SCCTMP/acc\_list

else

grep "^$filter" $SCCTMP/acc\_list1 > $SCCTMP/acc\_list

fi

echo " $date1\_asc -> $date6\_asc

For $filter SS Exceeded ${dev}% kVolt

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

TR exeeded returned Peak

Time kV duration kV Time kV

yyyy/mm/dd:hh:mm d/hh:mm yyyy/mm/dd:hh:mm

--------------------------------------------------------------------------" >> $OUT\_FILE

data\_src\_select

#grep PTA /aedc/cnf/scc/PTnot11KV | awk '{printf("@%s.%s@ ,", $1,$2)}'|sed "s/@/'/g"|read Not11kV\_pnt

#echo "select C0401\_name from T0401\_accounts where C0401\_source\_id\_int in

#(select C0007\_point\_id from T0007\_point

#where rtrim(C0003\_group\_name)+'.'+rtrim(C0007\_point\_name) in ($Not11kV\_pnt 'KK'))

#and C0401\_name like '%15MIN'

#go"|isql -U dbu -P dbudbu | grep 15MIN > ${SCCTMP}/PTnot11KV\_acc

while read ln # from $SCCTMP/acc\_list

do

echo $ln | awk '{print $1}' | read acc

if [[ -z `grep -w "$acc" ${SCCCNF}/PTnot11KV\_acc` ]]

then

echo ${dev}| awk '{printf("%.1f",(1+($1/100))\*10.5)}'|read lim

else

grep -w "$acc" ${SCCCNF}/PTnot11KV\_acc|awk '{print $2}'|read volt\_rate

#print -n "${acc} ${volt\_rate} kV volt\_rate "

echo ${dev} ${volt\_rate}|awk '{printf("%.1f", (1+($1/100))\*$2)}'|read lim

fi

echo "working ${acc}. . .Limit ${lim}"

echo "\n${acc}" >> ${OUT\_FILE}\_sub

if [ $data\_src = 2 ] # o/p variable of function: data\_src\_select

then

filter\_acc\_date\_range -n "${acc}" > /dev/null

else

filter\_acc\_date\_range -n "${acc}" -DB > /dev/null

fi

sed "s/^/${lim} /" $SCCTMP/Filter\_acc1 | awk '{if ($4 > $1) {print $3,$4} else printf"\n"}' |

grep -p [0-9] > $SCCTMP/acc\_exeed

head -1 $SCCTMP/acc\_exeed | awk '{printf("%d\t%.2f\n" ,$1,$2)}' > $SCCTMP/alrm\_sec

print -n "" > $SCCTMP/norm\_sec

print -n "" > $SCCTMP/pk\_sec

print -n "" > $SCCTMP/alrm\_tm

print -n "" > $SCCTMP/norm\_tm

print -n "" > $SCCTMP/pk\_tm

print -n "" > $SCCTMP/exeed\_tm

last\_brk\_ln=0

cat -n $SCCTMP/acc\_exeed | awk '{if (NF==1){print $0}}' |

while read brk\_ln

do

head -`expr $brk\_ln - 1` $SCCTMP/acc\_exeed | tail -1 | awk '{printf("%d\t%.2f\n" ,$1,$2)}'>> $SCCTMP/norm\_sec

head -`expr $brk\_ln + 1` $SCCTMP/acc\_exeed | tail -1 | awk '{printf("%d\t%.2f\n" ,$1,$2)}' >> $SCCTMP/alrm\_sec

head -`expr $brk\_ln - 1` $SCCTMP/acc\_exeed | tail -`expr $brk\_ln - $last\_brk\_ln` |

grep [1-9] | sort -n -k2 | tail -1 | awk '{printf("%d\t%.2f\n" ,$1,$2)}' >> $SCCTMP/pk\_sec

last\_brk\_ln=$brk\_ln

done # while read brk\_ln

grep [1-9] $SCCTMP/alrm\_sec |

while read sec1

do

echo $sec1|awk '{print $1 }'| read sec

echo $sec1|awk '{print $2 }'| read val

var\_asctime ${sec} "%Y/%m/%d:%H:%M" | read alrm\_tm

echo "${alrm\_tm} $val" >> $SCCTMP/alrm\_tm

done

grep [1-9] $SCCTMP/norm\_sec |

while read sec1

do

echo $sec1|awk '{print $1+900}'| read sec # 900 sec = 15 min X 60 sec/min

grep $sec $SCCTMP/Filter\_acc1 | awk '{printf("%.2f\n",$3)}' | read val

if [ -z "$val" ]

then

val="T.end"

tail\_FLG="true"

fi

var\_asctime $sec "%Y/%m/%d:%H:%M" |read norm\_tm

echo "${norm\_tm} ${val}" >> $SCCTMP/norm\_tm

done

grep [1-9] $SCCTMP/pk\_sec |

while read sec1

do

echo $sec1|awk '{print $1 }'| read sec

echo $sec1|awk '{print $2 }'| read val

var\_asctime ${sec} "%Y/%m/%d:%H:%M" | read pk\_tm

echo "${pk\_tm} $val" >> $SCCTMP/pk\_tm

done

paste -d"\t" $SCCTMP/alrm\_sec $SCCTMP/norm\_sec | grep [1-9] |

awk '{print $3+900-$1}'|while read sec # 900 sec = 15 min X 60 sec/min

do

var\_asctime `expr $sec - 7200` "%H:%M" | sed "s/^/$sec /" |

awk '{printf("%d/%s\n",$1/86400,$2)}' >> $SCCTMP/exeed\_tm

done

#paste -d"\t" $SCCTMP/alrm\_tm $SCCTMP/norm\_tm | sed 's/2/ 2/' >> ${OUT\_FILE}\_sub

paste $SCCTMP/alrm\_tm $SCCTMP/norm\_tm $SCCTMP/exeed\_tm $SCCTMP/pk\_tm |

awk '{print $1,$2,"\t",$5,$4,"\t ",$6,$7}' |

sed 's/2/ 2/' >> ${OUT\_FILE}\_sub

#else

#echo " ${acc} is not 11 Kvolt rate"|sed 's/<15MIN//'

#fi

done < $SCCTMP/acc\_list

grep -p ":" ${OUT\_FILE}\_sub > ${OUT\_FILE}\_sub1 # to filter acc's not exeed limit

grep "<" ${OUT\_FILE}\_sub1 | awk 'FS="."{print $1}' | sed 's/N$//;s/E$//' | sort -u |

while read ss

do

echo "\n$ss\n================" >> $OUT\_FILE

grep -w -e "$ss" -e "${ss}N" -e "${ss}E" $SCCTMP/acc\_list | sort -k2 |

while read ln

do

echo $ln | awk 'OFS="\n"{print $1,$2}' | { read acc ; read tr ; }

if [ ! -z "`grep -p $acc ${OUT\_FILE}\_sub1`" ]

then

grep -p "$acc" ${OUT\_FILE}\_sub1 | grep : | sed "1s/^/$tr/" >> $OUT\_FILE

echo "\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_" >> $OUT\_FILE

fi

done # while read ln

done # while read ss

if [ "$tail\_FLG" = "true" ]

then

echo "\nNote:

T.end >> voltage returned after the end of time range determined;

so that the return value is not available " >> $OUT\_FILE

fi

dcc\_ss\_replace -a $OUT\_FILE

asc\_print $OUT\_FILE -nH -1 -nd -B -F10 -p -nL