AIR QUALITY

MANAGEMENT DISTRICT

AUTHORITY TO CONSTRUCT EVALUATION

APPLICATION NO.:	A/C 25725
REVIEW STARTING DATE:	08/07/18
ISSUING ENGINEER:	Venk Reddy

I. PROJECT DESCRIPTION:

FACILITY NAME: Sacramento Power Authority

LOCATION: 3215 47th Ave., Sacramento, CA 95824

PROPOSAL: The applicant is requesting to perform two modifications at the facility. The first is an increase in the hourly start-up and quarterly CO emissions of P/O 21738 Gas Turbine and P/O 14071 Duct Burner. Both are controlled by air pollution control devices permitted under P/O 11458 Selective Catalytic Reduction system and P/O 11459 Oxidation Catalyst. This action will trigger BACT for CO which will impose a lower volumetric limit and lower emission rate (lb/hr) at steady state. The second is to perform a "Wet Compression Upgrade" This modification is an equipment addition and replacement which will result in increased efficiency. Both of these changes do not result in an increase in the maximum fuel usage. The Wet Compression Upgrade will result in an increase in MW output and a slight improvement in heat rate. Both modifications are explained in the section below.

INTRODUCTION: Sacramento Power Authority is a combined cycle power plant serving the Sacramento area. The following two changes are proposed.

CO Emission Increase

Sacramento Power Authority is requesting CO emission changes to their operating permit. The changes to the CO emissions do not represent an increase in capacity nor fuel usage but rather changes in monitoring equipment and changes in how the turbine is being dispatched.

The following is a summary of the proposed changes. A tabular summary of emission changes are found at the end of this section.

- 1) In November 2017, the applicant replaced the CEMS analyzer for CO. This analyzer has a higher span and range than the previous unit. This higher span and range allows the new CO CEMS to more accurately measure the gas turbine's startup emissions. This new CEMS data indicates a brief 15 to 20 minute period of high CO emissions above the previous upper range of the old CO analyzer, resulting in CO mass emissions potentially exceeding the daily emissions limit of the current operating permit. The increase in mass emissions of CO is not the result of a change in operation at the facility, but a higher accuracy in readings of CO emissions from the new CO CEMS during startups.
- 2) The applicant is proposing higher CO emission limits for all averaging periods that account for more frequent turbine startups based on recent operating practices that integrate renewable energy resources into the SMUD energy mix. Renewable resources tend to be variable, and more frequent turbine starts are necessary to account for this variability in

renewable power supply. This more frequent startups would occur mostly as warm and hot startups with less than 5 days and 24 hours between fuel firing, respectively.

- 3) Due to the increased CO startup emissions, this application will trigger BACT for CO. As a result the steady state CO emissions will be reduced from the current permitted limits of 4 ppmvd corrected to 15% O2 and 10.81 lb/hr to the new proposed BACT limit of 2 ppmvd corrected to 15% O2 with an hourly mass emission limit of 7.22 lb/hr.
- To comply with emission monitoring standards less than 200 PPMV, 40 CFR 60 Appendix B performance specification 4A will be added to the CEMs condition on the ATC. This is found in condition 19C of the ATC 25725.

	Lb/hr	lb/day	Q1	Q2	Q3	Q4
			lb/qtr	lb/qtr	lb/qtr	lb/qtr
Current CO limit	10.81	326.9	21,265	21,601	22,803	21,708
Proposed CO limit	7.22 (A)	1,258.8	47,600	47,600	47,600	47,600
-	550 (B)					

Summary of Emissions Limit Changes

(A) Steady state operation is the result of BACT implementation.

(B) Start-up emissions hourly limit, proposed by the applicant.

Wet Compression Upgrade

The applicant has also requested to install a "Wet Compression Upgrade" to the turbine. This process will introduce de-mineralized water into the compressor inlet in a controlled and sequenced manner. As the air and water are mixed and compressed, the water evaporates and effectively intercools the front stages of the compressor making the compression process more efficient. By improving the efficiency of the compressor and increasing the mass flow through the turbine, more torque from the turbine is available to drive the generator. The result is a greater amount of available power output in conjunction with an additional benefit of improved heat rate.

This upgrade requires the installation of a high pressure pump skid and new "HR3 Burners" in the turbine combustor. The HR3 Burner design enhances the mixing of fuel gas and combustion air during the gas premix mode. The design also reduces turbulence of the combustion airflow while increasing its velocity through the burner. Together, these features contribute to a more stable combustion. The burner retrofit package includes the HR3 design diagonal swirls and gas injection based packaged in a new HR3 gas distributor with upgraded corrosive resistant gas piping material.

Wet Compression is effective at recovering power loss experienced at high ambient temperatures. Siemens provides a power increase guarantee for the Wet Compression Upgrade Project of 10.5 MW (+-500 kW) at an ambient condition of 105° F and 20% relative humidity, and assumes no evaporative cooler or power augmentation (PAG) water contribution. The applicant hopes to optimize the system performance to achieve an estimated 20 MW increase while operating in "mixed mode," with both PAG and Wet Compression operating simultaneously at high ambient temperatures. There is no expected increase in fuel usage or emissions as a result of this upgrade.

EQUIPMENT DESCRIPTION:

1. Gas Turbine

Permit No.:	21738 (A/C 25725)
Manufacturer:	Siemens
Model No.:	V84.2
Type:	Combined Cycle
Nominal Rating:	103 MW
Heat Input Rating:	1,410 MMBTU/hour
Fuel:	Natural Gas

2. Duct Burner

Permit No.:	14071
Heat Input Rating:	200 MMBTU/hour
Fuel:	Natural Gas

3. <u>Air Pollution Control System – NOx (No change, shown for reference)</u>

Permit No.:	11458
Control Device:	Selective Catalytic Reduction
Manufacturer:	Nooter/Eriksen
Venting:	Gas Turbine (P/O 21738 (A/C 25725) and Duct Burner P/O 14071)

4. Air Pollution Control System - VOC and CO (No change, shown for reference)

Permit No.:	11459
Control Device:	Oxidation Catalyst
Manufacturer:	Nooter/Eriksen
Venting:	Gas Turbine (P/O 21738 (A/C 25725) and Duct Burner P/O 14071)

PROCESS RATE/FUEL USAGE:

The turbine and duct burner is limited to a maximum of 1,410 MMBTU/hr and 200 MMBTU/hr respectively. The daily, quarterly and annual process rate and fuel usages are dictated by the emission rates that are limited on the permit. The applicant uses CEMS to monitor emissions to ensure that permitted limits are not exceeded.

OPERATING SCHEDULE: The turbine does not have a restriction on time of day of operation. It can operate at any time provided that the daily, quarterly and yearly emission limits are not exceeded. The duct burner must not operate unless the gas turbine is operating.

CONTROL EQUIPMENT EVALUATION: The turbine and duct burner are controlled by an SCR system permitted under 11458 and an oxidation catalyst permitted under 11459.

II. EMISSIONS CALCULATIONS:

1. HISTORIC POTENTIAL EMISSIONS: The equipment is being evaluated as an existing emission unit (PO 21738); therefore its Historic Potential Emissions are as follows (Rule 202, §225):

Historic Potential Hourly Emissions			
Pollutant		Gas Turbine and Duct Burner	
		(lb/hour)	
VOC		9.01	
NOx	Normal Steady-State Operation	17.76	
	Worst Case Startup	48.00 (A)	
SOx		0.97	
PM10		7.00	
PM2.5		6.99 (B)	
CO	Normal Steady-State Operation	10.81	
	Worst Case Startup	93.00	

(A) NOx hourly emission rate is for reference only, and was used for calculation purposes during the initial evaluation of this turbine. It does not represent a regulatory limit.

(B) This turbine was permitted at a time when PM2.5 was not a regulated pollutant and as such PM2.5 emissions were not specified. In accordance with inventory criteria used for gas turbine combustion, PM2.5 emissions will be based on a 0.998 PM2.5 to PM10 fraction.

Historic Potential Daily Emissions – Including Start-Ups			
Pollutant	Gas Turbine and Duct Burner		
Foliularit	(lb/day)		
VOC	146.7		
NOx	384.5		
SOx	21.8		
PM10	142.1		
PM2.5	141.8 (A)		
СО	326.9		

(A) This turbine was permitted at a time when PM2.5 was not a regulated pollutant and as such PM2.5 emissions were not specified. In accordance with inventory criteria used for gas turbine combustion, PM2.5 emissions will be based on a 0.998 PM2.5 to PM10 fraction.

	Historic Potent	tial Quarterly Emissions – Gas Turbine and Duct Burner (A)			
Pollutant	Quarter 1 lb/quarter	Quarter 2 lb/quarter	Quarter 3 lb/quarter	Quarter 4 lb/quarter	
VOC	8,792	8,898	13,264	8,968	
NOx	24,209	24,545	26,321	24,725	
SOx	1,814	1,836	1,944	1,853	
PM10	10,183	9,319	11,444	10,769	

	Historic Potential Quarterly Emissions – Gas Turbine and Duct Burner (A)			nd Duct Burner (A)
Pollutant	Quarter 1 lb/quarter	Quarter 2 lb/quarter	Quarter 3 lb/quarter	Quarter 4 lb/quarter
PM2.5 (B)	10,163	9,301	11,421	10,747
со	21,265	21,601	22,803	21,708

(A) When the permits were written, the quarterly emissions reflected the emissions from the entire facility not the individual permitted units. However, the emissions in this table reflect the individual potentials to emit for the gas turbine and duct burner as calculated in the original evaluation (EV21738).

(B) This turbine was permitted at a time when PM2.5 was not a regulated pollutant and as such PM2.5 emissions were not specified. In accordance with inventory criteria used for gas turbine combustion, PM2.5 emissions will be based on a 0.998 PM2.5 to PM10 fraction.

Historic Potential Annual Emissions (A)			
Pollutant	Gas Turbine and Duct Burner (TPY)	Cooling Tower (TPY)	Total Facility (TPY)
VOC	19.96	0.09	20.1
NOx	49.90	0.00	49.9
SOx	3.72	0.00	3.7
PM10	20.86	1.69	22.6
PM2.5	20.82	1.69	22.5
СО	43.69	0.00	43.7

(A) The annual emissions for the facility are depicted in P/O 21738. They are calculated from the quarterly emissions from the gas turbine and duct burner added to the emissions from the cooling tower. The facility tons per year has been rounded to one decimal point.

2. PROPOSED POTENTIAL TO EMIT:

The limits are based on the previous permitted values for all pollutants except CO. CO is based on the applicant's request as part of this application. The steady state lb/hr emissions of CO is based on 2 ppmvd corrected to 15% O2 averaged over 1 hr.

Proposed Potential Hourly Emissions				
Pollutant		Gas Turbine and Duct Burner (lb/hour)		
VOC		9.01		
NOx	Normal Steady-State Operation	17.76		
	Worst Case Startup	48.00 (A)		
SOx		0.97		
PM10		7.00		

PM2.5		6.99 (A)
CO	Normal Steady-State Operation	7.22
	Worst Case Startup	550.00

(A) NOx hourly emission rate is for reference only, and was used for calculation purposes during the initial evaluation of this turbine. It does not represent a regulatory limit.

(B) This turbine was permitted at a time when PM2.5 was not a regulated pollutant and as such PM2.5 emissions were not specified. In accordance with inventory criteria used for gas turbine combustion, PM2.5 emissions will be based on a 0.998 PM2.5 to PM10 fraction.

Proposed Potential Daily Emissions			
Including Start-Ups			
Pollutant	Gas Turbine and Duct Burner		
Foliularit	(lb/day)		
VOC	146.7		
NOx	384.5		
Sox	21.8		
PM10 142.1			
PM2.5	12.5 141.8 (A)		
CO	1,258.8 (B)		

- (A) This turbine was permitted at a time when PM2.5 was not a regulated pollutant and as such PM2.5 emissions were not specified. In accordance with inventory criteria used for gas turbine combustion, PM2.5 emissions will be based on a 0.998 PM2.5 to PM10 fraction.
- (B) CO daily emission rate is based on two startups with 22 hours of normal steady-state operation

	Proposed Quarterly Emissions Gas Turbine and Duct Burner (A)			
Pollutant	Quarter 1 lb/quarter	Quarter 2 lb/quarter	Quarter 3 lb/quarter	Quarter 4 lb/quarter
VOC	8,792	8,898	13,264	8,968
NOx	24,209	24,545	26,321	24,725
SOx	1,814	1,836	1,944	1,853
PM10	10,183	9,319	11,444	10,769
PM2.5 (B)	10,163	9,301	11,421	10,747
CO (C)	47,599	47,599	47,599	47,599

(A) When the permits were written, the quarterly emissions reflected the entire facility emissions not the individual permitted units. However, the emissions in this table reflect the individual potentials to emit for the gas turbine and duct burner as calculated in the previous evaluation (EV21738).

(B) This turbine was permitted at a time when PM2.5 was not a regulated pollutant and as such PM2.5 emissions were not specified. In accordance with inventory criteria used for gas turbine combustion, PM2.5 emissions will be based on a 0.998 PM2.5 to PM10

fraction.

(C) CO quarterly emissions are based on 90 one-hour startups averaging 500 lb/hr CO and 360 hours of normal steady-state operation.

Proposed Potential Annual Emissions (A)				
Pollutant	Gas Turbine and Duct Burner (TPY)	Cooling Tower (TPY)	Total Facility (TPY)	
VOC	19.96	0.09	20.1	
NOx	49.90	0.00	49.9	
SOx	3.72	0.00	3.7	
PM10	20.86	1.69	22.6	
PM2.5	20.82	1.69	22.5	
СО	95.20	0.00	95.2	
GHG (B)	726,691	0.00	726,691	

(A) The annual emissions for the facility are depicted in P/O 21738. They are calculated from the quarterly emissions from the gas turbine and duct burner added to the emissions from the cooling tower. The facility tons per year has been rounded to one decimal point.

(B) GHG emission is based on back calculating the MMBTU value of the fuel from the SOx emissions. SOx with an emission factor of 0.0006 lb/MMBTU, 1000 BTU/cf. The GHG emission factor used is 117,098 lb/MMCF.

III. COMPLIANCE WITH RULES AND REGULATIONS:

1. H&S § 42301.6 (AB 3205) COMPLIANCE: The turbine and duct burner are not located within 1,000 feet from the outer boundary of a school site. Therefore the school public noticing requirements of H&S Code § 42301.6 do not apply.

2. NSR COMPLIANCE:

Rule 202 - New Source Review

Since the modification is not considered a major modification for any pollutant (see Appendix A - Major Modification Applicability Determination), the following methodologies will be utilized.

Section 301 - Best Available Control Technology

BACT is triggered for any pollutant for which the emission increase ($BACT_{EI}$) calculated pursuant to Rule 202, Section 411.1 exceeds the levels specified below. For purposes of this calculation, the difference is done using tenths, then the difference is rounded to an integer using standard rounding convention (round up if greater than or equal to 0.5):

BACT is triggered if:

 $BACT_{EI} > BACT_{TL}$

> Where: Emissions Increase = (DPE - DHPE)BACT_{FI} = DPE Daily Potential Emissions (from Section II.2) = DHPE = Daily Historic Potential Emissions (from Section II.1) BACT_{TL} = Pollutant BACTTL VOC 0 lb/day NOx 0 lb/day SOx 0 lb/day 550 lb/day CO **PM**₁₀ 0 lb/day $PM_{2.5}$ 0 lb/day Lead 3.3 lb/day

Determination of BACT Applicability for each respective turbine:

Pollutant	DPE (lb/day)	DHPE	BACT _{EI} (lb/day)	BACT _{⊤L} (lb/day)	Is BACT Required?
VOC	146.7	146.7	0	>0	No
NOx	384.5	384.5	0	>0	No
SOx	21.8	21.8	0	>0	No
PM10	142.1	142.1	0	>0	No
PM2.5	141.8	141.8	0	>0	No
CO	1,258.8	326.9	932	>550	Yes
Lead	0	0	0	>3.3	No

The proposed CO emissions exceed the BACT trigger levels specified in this section and are therefore subject to BACT.

BACT for this project was determined to be the following (See BACT 203 in Appendix B):

BACT (#203) COMBUSTION GAS TURBINE				
Pollutant	Standard	Compliance Demonstration		
VOC	1.0 ppmvd corrected to 15% O2, 3-Hr average, utilizing an Oxidation Catalyst	N/A – BACT was not triggered		
NOx	2.0 ppmvd corrected to 15% O2, 1-Hr average	N/A – BACT was not triggered		
SOx	Natural Gas or equivalent that meets 0.7 gr Sulfur/100 scf	N/A – BACT was not triggered		
PM10	Natural gas or equivalent fuel that meets 0.7 gr Sulfur/100 scf with an air inlet filter cooler and lube oil vent coalescer.	N/A – BACT was not triggered		

PM2.5	Natural gas or equivalent fuel that meets 0.7 gr Sulfur/100 scf with an air inlet filter cooler and lube oil vent coalescer.	N/A – BACT was not triggered
СО	2.0 ppmvd corrected to 15% O2, 1-Hr average utilizing an Oxidation Catalyst	The turbine has an oxidation catalyst and the CO emissions will be limited to 2.0 ppmvd corrected to 15% O2, 1-Hr average

The applicant is proposing emission standards and equipment that meet the aforementioned BACT requirements. Therefore, this permit modification complies with BACT.

<u>Section 302 – Offsets</u>: Offsets are triggered for any project where the stationary source potential to emit, calculated pursuant to Rule 202, Section 411.3 exceeds the levels specified below.

All units at this facility/stationary source were installed after January 1, 1977.

CALCULATION OF OFFSET TRIGGER LEVEL FOR VOC AND NO_x (Qtr 1)

Permit No.	Emissions Unit	Stationary Source Potential to Emit Ib/quarter	
		VOC	NOx
P/O 11458	SCR	0	0
P/O 11459	Oxidation Catalyst	0	0
P/O 13316	Cooling Tower	Modified by A/C 24808	
P/O 14071	Duct Burner	Emissions combined with A/C 25725	
P/O 14072	Gas Turbine	Modified by P/O 21738	
P/O 21738	Gas Turbine	Modified by A/C 25725	
A/C 24808	Cooling Tower	44	0
A/C 25725	Gas Turbine	8,792	24,209
Total		8,836	24,209
Offset Trigger Level		≥5,000	≥5,000

Permit No.	Emissions Unit	Stationary Source Potential to Emit Ib/quarter	
		VOC	NOx
P/O 11458	SCR	0	0
P/O 11459	Oxidation Catalyst	0	0
P/O 13316	Cooling Tower	Modified by A/C 24808	
P/O 14071	Duct Burner	Emissions combined with A/C 25725	
P/O 14072	Gas Turbine	Modified by P/O 21738	
P/O 21738	Gas Turbine	Modified by A/C 25725	
A/C 24808	Cooling Tower	45	0
A/C 25725	Gas Turbine	8,898	24,545
Total		8,943	24,545
Offset Trigger Level		≥5,000	≥5,000

CALCULATION OF OFFSET TRIGGER LEVEL FOR VOC AND NO_x (Qtr 3)

Permit No.	Emissions Unit	Stationary Source Potential to Emit Ib/quarter	
		VOC	NOx
P/O 11458	SCR	0	0
P/O 11459	Oxidation Catalyst	0	0
P/O 13316	Cooling Tower	Modified by A/C 24808	
P/O 14071	Duct Burner	Emissions combined with A/C 25725	
P/O 14072	Gas Turbine	Modified by P/O 21738	
P/O 21738	Gas Turbine	Modified by A/C 25725	
A/C 24808	Cooling Tower	45	0
A/C 25725	Gas Turbine	13,264	26,321
Total		13,309	26,321
Offset Trigger Level		≥5,000	≥5,000

CALCULATION OF OFFSET TRIGGER LEVEL FOR VOC AND NO_x (Qtr 4)

Permit No.	Emissions Unit	Stationary Source Potential to Emit Ib/quarter		
		VOC	NOx	
P/O 11458	SCR	0	0	
P/O 11459	0 11459 Oxidation Catalyst		0	
P/O 13316	Cooling Tower	Modified by A/C 24808		

Permit No.	Emissions Unit	Stationary Source Potential to Emit Ib/quarter		
		VOC	NOx	
P/O 14071	Duct Burner	Emissions combined with A/C 2572		
P/O 14072	Gas Turbine	Modified by P/O 21738		
P/O 21738	Gas Turbine	Modified by A/C 25725		
A/C 24808	Cooling Tower	45 0		
A/C 25725	C 25725 Gas Turbine		24,725	
	Total	9,013	24,725	
Of	fset Trigger Level	≥5,000	≥5,000	

Pursuant to Section 411.3 offsets are triggered for VOC and NOx for all four quarters. Pursuant to Section 411.4, the amount of offsets that are required is determined by the potential to emit minus the Historic Actual Emissions. Since this modification is not considered major (see Appendix A - Major Modification Applicability Determination), then Historic Actual Emissions are equal to Historic Potential Emissions. The applicant is not requesting an increase in quarterly emissions from their existing permits, therefore, potential emissions minus Historic Potential Emissions is zero and offsets will not be required.

CALCULATION OF OFFSET TRIGGER LEVEL FOR SOX, PMI10, PMI2.5, AND CO (QUI 1)
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		Stationary Source Potential to Emit			
Permit No.	Emissions Unit	ton/year	on/year lb/quarter		
		PM2.5	SOx	PM10	CO
P/O 11458	SCR	0	0	0	0
P/O 11459	Oxidation Catalyst	0	0	0	0
P/O 13316	Cooling Tower	Modified by A/C 24808			
P/O 14071	Duct Burner	Emissions combined with A/C 25725			
P/O 14072	Gas Turbine	Modified by P/O 21738			
P/O 21738	Gas Turbine	Modified by A/C 25725			
A/C 24808	Cooling Tower	1.69 0		832	0
A/C 25725	/C 25725 Gas Turbine		1,814	10,183	47,599
	22.51	1,814	11,015	47,599	
Offse	et Trigger Level	≥ 15	≥ 13,650	≥ 7,300	≥ 49,500

CALCULATION OF OFFSET TRIGGER LEVEL FOR SO_X, PM₁₀, PM_{2.5}, AND CO (Qtr 2)

		Stationary Source Potential to Emit			
Permit No.	Emissions Unit	ton/year	lb/quarter		
		PM2.5	SOx	PM10	CO
P/O 11458	SCR	0	0	0	0
P/O 11459	Oxidation Catalyst	0	0	0	0
P/O 13316	Cooling Tower	Modified by A/C 24808			
P/O 14071	Duct Burner	Emissions combined with A/C 25725			
P/O 14072	Modified by P/O 21738				
P/O 21738	Gas Turbine		Modified by	A/C 25725	
A/C 24808	Cooling Tower	1.69	0	841	0
A/C 25725	25 Gas Turbine		1,836	9,319	47,599
	Total	22.51	1,836	10,160	47,599
Offse	et Trigger Level	≥ 15	≥ 13,650	≥ 7,300	≥ 49,500

CALCULATION OF OFFSET TRIGGER LEVEL FOR SO_X, PM₁₀, PM_{2.5}, AND CO (Qtr 3)

		Stationary Source Potential to Emit			
Permit No.	Emissions Unit	ton/year	lb/quarter		
		PM2.5	SOx	PM10	CO
P/O 11458	SCR	0	0	0	0
P/O 11459	Oxidation Catalyst	0	0	0	0
P/O 13316	Cooling Tower	Modified by A/C 24808			
P/O 14071	Duct Burner	Emissions combined with A/C 25725			
P/O 14072	Gas Turbine	Modified by P/O 21738			
P/O 21738	Gas Turbine		Modified by	[,] A/C 25725	
A/C 24808	Cooling Tower	1.69 0		850	0
A/C 25725	Gas Turbine	20.82	1,944	11,444	47,599
	Total	22.51 1,944 12,294 47,599			
Offse	et Trigger Level	≥ 15	≥ 13,650	≥ 7,300	≥ 49,500

CALCULATION OF OFFSET TRIGGER LEVEL FOR SO_X, PM₁₀, PM_{2.5}, AND CO (Qtr 4)

		Stationary Source Potential to Emit				
Permit No.	Emissions Unit	ton/year	lb/quarter			
		PM2.5	SOx	PM10	СО	
P/O 11458	SCR	0	0	0	0	
P/O 11459	Oxidation Catalyst	0	0	0	0	

		Stationary Source Potential to Emit			
Permit No.	Emissions Unit	ton/year	lb/quarter		
		PM2.5	SOx	PM10	CO
P/O 13316	Cooling Tower	Modified by A/C 24808			
P/O 14071	Duct Burner	Emissions combined with A/C 25725			
P/O 14072	Gas Turbine	Modified by P/O 21738			
P/O 21738	Gas Turbine	Modified by A/C 25725			
A/C 24808	Cooling Tower	1.69 0 850		850	0
A/C 25725	5725 Gas Turbine		1,853	10,769	47,599
	22.51	1,853	11,619	47,599	
Offse	et Trigger Level	≥ 15	≥ 13,650	≥ 7,300	≥ 49,500

Pursuant to Section 411.3 offsets are triggered for PM10 and PM2.5 for all four quarters. Pursuant to Section 411.4, the amount of offsets that are required is determined by the potential to emit minus the Historic Actual Emissions. Since this modification is not considered major (see Appendix A - Major Modification Applicability Determination), then Historic Actual Emissions are equal to Historic Potential Emissions. For PM10 and PM2.5, the applicant is not requesting an increase in quarterly emissions from their existing permits, therefore, potential emissions minus Historic Potential Emissions is zero and offsets will not be required.

Section 306 Ambient Air Quality Standard.

In no case shall emissions from a new or modified stationary source prevent or interfere with the attainment or maintenance of any applicable ambient air quality standard. This application involves an increase in the 1-hour level and 8-hr level. Aermod was used to determine the impact of CO as shown below.

Pollutant	Averaging Period	Maximum Facility Impact (µg/m³)	SIL (µg/m³)	State Standard (µg/m³)	Federal Standard (µg/m³)
СО	1-hour	519	2,000	23,000	40,000
	8-hour	35	500	10,000	10,000

As shown above, the CO emissions does not violate any Ambient Air Quality standard

The model parameters used are as follows. The F-factor of 8710 dscf/MMBTU was used to estimate the cfm and was not corrected to stack temperature. This is considered more conservative.

1 hr Parameters

630 MMBTU/hr 16.5% O2 Stack Flow 434,412 dscf/min

8 hr Parameters

1610 MMBTU/hr 15.0 % O2 Stack Flow 827,917 dscf/min

Section 308 – CEQA

The SPA project underwent review/approval by the CEC as an Application for Certification (AFC) where the CEC process was determined to be CEQA equivalent. Because SPA underwent review/approval by the CEC as an Application for Certification (AFC), and this project will require amendment to this AFC, we expect that CEC staff will determine that this project will require CEC review, and this review will satisfy CEQA. Therefore, the SMAQMD will be required to issue a preliminary Authority to Construct which will act as a preliminary determination of compliance (PDOC) prior to issuing the final Authority to Construct permit for the Project which will act as a final determination of compliance (FDOC).

Section 309 – Denial, Adverse Impact to Visibility of a Class I Area

This section requires the Air Pollution Control Officer to deny an Authority to Construct or a Permit to Operate for a new major stationary source or major modification, if the Air Pollution Control Officer finds, after consideration of comments and an analysis from the Federal Land Manager, that the emissions from the proposed facility or modification would have an adverse impact on visibility of a Class 1 area pursuant to CFR Section 51.307(b).

Since this modification, at an existing major source, is not considered major (see Appendix A), this section does not apply.

Section 401 – Alternative Siting

Except as provided in Section 115, this section requires for major sources or major modifications for which an analysis of alternative sites, sizes, and production processes is required under Section 173(a)(5) of the Clean Air Act, the applicant provide an alternative siting analysis that is functionally equivalent to the requirements of Division 13 of the Public Resources Code. The Authority to Construct shall not be issued unless the Air Pollution Control Officer has concluded, based on the information contained in the alternative siting analysis, that the benefits of the proposed source significantly outweigh the environmental and social costs imposed as a result of its location, construction, or modification.

Section 115 states that this section does not apply if the application for Authority to Construct is not a Federal Major Modification. Since this modification is not considered major (see Appendix A), this section does not apply.

Section 404 – Enhanced New Source Review

The applicant has requested enhanced new source review. Therefore, this review will be subject to District Rule 207 Section 305 and Sections 401 through 408.

<u>Section 406 – Submittal of BACT Determinations:</u> This permitting action required a new BACT analysis for this source category. The BACT determination Gas Turbine - No. 203 will be submitted in accordance with the requirements of this section.

Section 413 - Sources Impacting Class 1 Areas

This section requires, for new major sources or major modifications that may affect visibility of a Class 1 area, the applicant to provide the Air Pollution Control Officer with an analysis of

impairment to visibility that would occur as a result of the source or modification and general commercial, residential, industrial, and other growth associated with the project, as required by 40 CFR Section 51.307(b)(2) and 40 CFR Section 51.166.

Since this modification, at an existing major source, is not considered major (see Appendix A), this section does not apply.

Rule 203 – Prevention of Significant Deterioration

A source or modification triggers PSD if:

- Its potential to emit any one pollutant is greater than or equal to 100 tons/year if it is one of the 28 selected industrial categories in 42 U.S.C. Section 7479 (1), or greater than or equal to 250 tons/year for all other categories; or
- It is part of a major stationary source and the project's net emissions increase for any
 pollutant will be greater than the significance levels listed below:

Pollutant	Level of Significance (Tons/Yr)
CO	100
NOx	40
SOx	40
PM	25
PM10	15
PM2.5	10 (PM2.5) or 40 (SO2) or 40(NO)
Ozone	40 of NOx or VOCs
Lead	0.6
Fluorides	3
Sulfuric acid mist	7
H ₂ S	10
Total reduced sulfur (including H ₂ S)	10
Reduced sulfur compounds (including H ₂ S)	10
Greenhouse Gases (CO2e)	75,000

There are no emissions sources at the facility that appear to have the potential to emit over 100 or 250 tons per year. In addition the facility emissions would not exceed this threshold either. Since this is not a major stationary source (for PSD purposes), a PSD analysis is not required.

RULE 207 – Title V Federal Operating Permit Program

SPA has a Title V permit. Per Rule 214, Section 101.1, SPA has requested that this application be reviewed through the Enhanced New Source Review process. Consequently, the review of this application is subject to Rule 207, Section 305 and Sections 401 through 408. The Enhanced New Source Review process will allow the District to administratively amend the facility's Title V permit to reflect these changes at a later date.

Section 305 – Title V Permit Content

All the requirements and standards specified in this section are incorporated in the existing Title V Permit and as applicable will be included in this application.

Section 401 through 408 – Administrative Requirements

This permit action will be processed using SMAQMD Rule 214 Section 404 Enhanced New Source Review. The procedural requirements in SMAQMD Rule 207 Sections 401 through 408 will be used. A public notice will be published in the Sacramento Bee requesting comments within a 30 day review period. The U.S. EPA Region 9 will have a 45 day review period.

The use of the Enhanced New Source Review process will allow this permit action to be incorporated into the facility's Title V permit through a Title V administrative permit amendment (see SMAQMD Rule 207 Section 202.5).

Prior to initial construction under this A/C, the applicant must submit a Title V application for an administrative amendment, and the following permit conditions will be listed on the A/C as follows:

- S3. This Authority to Construct has been reviewed through an Enhanced New Source Review process in accordance with the procedural requirements of Section 401 through 408 of Rule 207 Title V Federal Operating Permit Program.
- S4. The Sacramento Power Authority must submit to the Air Pollution Control Officer an application to modify the Title V permit with an Administrative Title V Permit Amendment prior to commencing construction with modifications authorized by this Authority to Construct.

Rule 208 - Acid Rain

SPA Cogen operates under a valid Title IV Acid Rain Permit that is part of the existing Title V Permit 2007-12-12. SPA Cogen Clean Air Market Division (CAMD) Account number is 007552FACILITY and currently holds 11 tons of SO2 Allocations in its account. This is sufficient to cover the average deduction amount of 2 tons per year for the project for an additional 5-operating years.

SPA operates SMAQMD approved Continuous Emission Monitoring System (CEMS) and Continuous Parameter Monitoring System (CPMS) use to monitor and record information needed to demonstrate compliance with the Title IV and Title V permits. To date, SPA Cogen has not had an exceedance in emissions, failed to hold sufficient allocations, or failed to surrender allocations in a timely manner. Continued compliance is expected.

Rule 214 - Federal New Source Review

This rule applies to either new major stationary sources, or modifications to existing major stationary sources.

Section 301 - Best Available Control Technology

Since the modification is not considered a major modification for any pollutant (see Appendix A - Major Modification Applicability Determination), the following methodologies will be utilized.

BACT is triggered for any pollutant for which the emission increase (BACT_{EI}) calculated pursuant to Rule 202, Section 411.1 exceeds the levels specified below. For purposes of this calculation, the difference is done using tenths, then the difference is rounded to an integer using standard rounding convention (round up if greater than or equal to 0.5):

BACT is triggered if:

$BACT_{EI} > BACT$	TL		
Where: BACT _{EI} DPE DHPE	= = =	Emissions I Daily Poten Daily Histor	ncrease = (DPE – DHPE) tial Emissions (from Section II.2) ic Potential Emissions (from Section II.1)
BACT _{TL}	=	Pollutant VOC NOx SOx CO PM ₁₀ PM _{2.5} Lead	BACT _{TL} 0 lb/day 0 lb/day 0 lb/day 550 lb/day 0 lb/day 0 lb/day 3.3 lb/day

Determination of BACT Applicability for each respective turbine:

Pollutant	DPE (lb/day)	DHPE	BACT _{EI} (lb/day)	BACT _{⊺L} (lb/day)	Is BACT Required?
VOC	146.7	146.7	0	>0	No
NOx	384.5	384.5	0	>0	No
SOx	21.8	21.8	0	>0	No
PM10	142.1	142.1	0	>0	No
PM2.5	141.8	141.8	0	>0	No
CO	1,258.8	326.9	932	>550	Yes
Lead	0	0	0	>3.3	No

The proposed CO emissions exceed the BACT trigger levels specified in this section and are therefore subject to BACT.

BACT for this project was determined to be the following (See BACT 203 in Appendix B):

BACT (#203) COMBUSTION GAS TURBINE					
Pollutant	Standard	Compliance Demonstration			
VOC	1.0 ppmvd corrected to 15% O2, 3-Hr average, utilizing an Oxidation Catalyst	N/A – BACT was not triggered			
NOx	2.0 ppmvd corrected to 15% O2, 1-Hr average	N/A – BACT was not triggered			
SOx	Natural Gas or equivalent that meets 0.7 gr Sulfur/100 scf	N/A – BACT was not triggered			

PM10	Natural gas or equivalent fuel that meets 0.7 gr Sulfur/100 scf with an air inlet filter cooler and lube oil vent coalescer.	N/A – BACT was not triggered
PM2.5	Natural gas or equivalent fuel that meets 0.7 gr Sulfur/100 scf with an air inlet filter cooler and lube oil vent coalescer.	N/A – BACT was not triggered
СО	2.0 ppmvd corrected to 15% O2, 1-Hr average utilizing an Oxidation Catalyst	The turbine has an oxidation catalyst and the CO emissions will be limited to 2.0 ppmvd corrected to 15% O2, 1-Hr average

The applicant is proposing emission standards and equipment that meet the aforementioned BACT requirements. Therefore, this permit modification complies with BACT.

<u>Section 302 – Offsets</u>: Offsets are triggered for any project where the stationary source potential to emit, calculated pursuant to Rule 202, Section 411.3 exceeds the levels specified below.

Pollutant	lb/qtr
VOC	5,000
NOx	5,000
SOx	13,650
PM10	7,300
PM2.5	15 TPY
CO	49,500

All units at this facility/stationary source were installed after January 1, 1977.

CALCULATION OF OFFSET TRIGGER LEVEL FOR VOC AND NO_X (Qtr 1)

Permit No.	Emissions Unit	Stationary Source Potential to Emit lb/quarter		
		VOC	NOx	
P/O 11458	SCR	0	0	
P/O 11459	Oxidation Catalyst	0 0		
P/O 13316	Cooling Tower	Modified by A/C 24808		
P/O 14071	Duct Burner	Emissions combined with A/C 25725		
P/O 14072	Gas Turbine	Modified by P/O 21738		
P/O 21738	Gas Turbine	Modified by	A/C 25725	
A/C 24808	Cooling Tower	44 0		
A/C 25725	Gas Turbine	8,792 24,20		
Total		8,836	24,209	
Offset Trigger Level		≥5,000	≥5,000	

Permit No.	Emissions Unit	Stationary Source Potential to Emit lb/quarter		
		VOC	NOx	
P/O 11458	SCR	0	0	
P/O 11459	Oxidation Catalyst	0 0		
P/O 13316	Cooling Tower	Modified by A/C 24808		
P/O 14071	Duct Burner	Emissions combined with A/C 25725		
P/O 14072	Gas Turbine	Modified by P/O 21738		
P/O 21738	Gas Turbine	Modified by A/C 25725		
A/C 24808	Cooling Tower	45 0		
A/C 25725	Gas Turbine	8,898 24,545		
Total		8,943	24,545	
Offset Trigger Level		≥5,000	≥5,000	

CALCULATION OF OFFSET TRIGGER LEVEL FOR VOC AND NO_X (Qtr 2)

CALCULATION OF OFFSET TRIGGER LEVEL FOR VOC AND NO_X (Qtr 3)

Permit No.	Emissions Unit	Stationary Source Potential to Emit lb/quarter		
		VOC	NOx	
P/O 11458	SCR	0	0	
P/O 11459	Oxidation Catalyst	0 0		
P/O 13316	Cooling Tower	Modified by A/C 24808		
P/O 14071	Duct Burner	Emissions combined with A/C 25725		
P/O 14072 Gas Turbine Modified by P/O 2			r P/O 21738	
P/O 21738	Gas Turbine	Modified by	/ A/C 25725	
A/C 24808	Cooling Tower	45 0		
A/C 25725	Gas Turbine	13,264 26,32		
Total		13,309	26,321	
Offset Trigger Level		≥5,000	≥5,000	

CALCULATION OF OFFSET TRIGGER LEVEL FOR VOC AND NO_x (Qtr 4)

Permit No.	Emissions Unit	Stationary Source Potential to Emit lb/quarter		
		VOC	NOx	
P/O 11458	SCR	0	0	
P/O 11459	Oxidation Catalyst	0	0	

Permit No.	Emissions Unit	Stationary Source Potential to Emit lb/quarter		
		VOC	NOx	
P/O 13316	Cooling Tower	Modified by A/C 24808		
P/O 14071	Duct Burner	Emissions combined with A/C 2572		
P/O 14072	Gas Turbine	Modified by P/O 21738		
P/O 21738	Gas Turbine	Modified by A/C 25725		
A/C 24808	Cooling Tower	45 0		
A/C 25725	Gas Turbine	8,968 24,725		
Total		9,013	24,725	
Offset Trigger Level		≥5,000	≥5,000	

Pursuant to Section 411.3 offsets are triggered for VOC and NOx for all four quarters. Pursuant to Section 411.4, the amount of offsets that are required is determined by the potential to emit minus the Historic Actual Emissions. Since this modification is not considered major (see Appendix A - Major Modification Applicability Determination), then Historic Actual Emissions are equal to Historic Potential Emissions. The applicant is not requesting an increase in quarterly emissions from their existing permits, therefore, potential emissions minus Historic Potential Emissions is zero and offsets will not be required.

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	Emissions Unit	Stationary Source Potential to Emit			
Permit No.		ton/year		lb/quarter	
		PM2.5	SOx	PM10	CO
P/O 11458	SCR	0	0	0	0
P/O 11459	Oxidation Catalyst	0	0	0	0
P/O 13316	Cooling Tower	Modified by A/C 24808			
P/O 14071	Duct Burner	Emissions combined with A/C 25725			25725
P/O 14072	Gas Turbine	Modified by P/O 21738			
P/O 21738	Gas Turbine		Modified by	• A/C 25725	
A/C 24808	Cooling Tower	1.69	0	832	0
A/C 25725	Gas Turbine	20.82	1,814	10,183	47,599
Total		22.51	1,814	11,015	47,599
Offset Trigger Level		≥ 15	≥ 13,650	≥ 7,300	≥ 49,500

CALCULATION OF OFFSET TRIGGER LEVEL FOR SO_X, PM₁₀, PM_{2.5}, AND CO (Qtr 2)

	Emissions Unit	Stationary Source Potential to Emit			
Permit No.		ton/year		lb/quarter	
		PM2.5	SOx	PM10	CO
P/O 11458	SCR	0	0	0	0
P/O 11459	Oxidation Catalyst	0	0	0	0
P/O 13316	Cooling Tower	Modified by A/C 24808			
P/O 14071	Duct Burner	Emissions combined with A/C 25725			25725
P/O 14072	Gas Turbine	Modified by P/O 21738			
P/O 21738	Gas Turbine		Modified by	A/C 25725	
A/C 24808	Cooling Tower	1.69	0	841	0
A/C 25725	Gas Turbine	20.82	1,836	9,319	47,599
Total		22.51	1,836	10,160	47,599
Offset Trigger Level		≥ 15	≥ 13,650	≥ 7,300	≥ 49,500

CALCULATION OF OFFSET TRIGGER LEVEL FOR SO_X, PM₁₀, PM_{2.5}, AND CO (Qtr 3)

	Emissions Unit	Stationary Source Potential to Emit			
Permit No.		ton/year		lb/quarter	
		PM2.5	SOx	PM10	CO
P/O 11458	SCR	0	0	0	0
P/O 11459	Oxidation Catalyst	0	0	0	0
P/O 13316	Cooling Tower	Modified by A/C 24808			
P/O 14071	Duct Burner	Emissions combined with A/C 25725			25725
P/O 14072	Gas Turbine	Modified by P/O 21738			
P/O 21738	Gas Turbine		Modified by	[,] A/C 25725	
A/C 24808	Cooling Tower	1.69	0	850	0
A/C 25725	Gas Turbine	20.82	1,944	11,444	47,599
Total		22.51	1,944	12,294	47,599
Offset Trigger Level		≥ 15	≥ 13,650	≥ 7,300	≥ 49,500

CALCULATION OF OFFSET TRIGGER LEVEL FOR SO_X, PM₁₀, PM_{2.5}, AND CO (Qtr 4)

Permit No.		Stationary Source Potential to Emitton/yearIb/quarterPM2.5SOxPM10CO0000			
	Emissions Unit	ton/year	Stationary Source Potential to Emith/yearlb/quarterM2.5SOxPM10CO00000000		
		PM2.5	SOx	PM10	СО
P/O 11458	SCR	0	0	0	0
P/O 11459	Oxidation Catalyst	0	0	0	0

		Stationary Source Potential to Emitton/yearIb/quarterPM2.5SOxPM10COModified by A/C 24808Modified by A/C 25725Modified by P/O 21738Modified by P/O 21738Modified by A/C 25725Modified by A/C 257251.6908500			o Emit
Permit No.	Emissions Unit	ton/year	lb/quarter		
		PM2.5	SOx	PM10	CO
P/O 13316	Cooling Tower	Modified by A/C 24808			
P/O 14071	Duct Burner	Emissions combined with A/C 25725			25725
P/O 14072	Gas Turbine	Modified by P/O 21738			
P/O 21738	Gas Turbine	Modified by A/C 25725			
A/C 24808	Cooling Tower	1.69	0	850	0
A/C 25725	Gas Turbine	20.82	1,853	10,769	47,599
Total		22.51	1,853	11,619	47,599
Offset Trigger Level		≥ 15	≥ 13,650	≥ 7,300	≥ 49,500

Pursuant to Section 411.3 offsets are triggered for PM10 and PM2.5 for all four quarters. Pursuant to Section 411.4, the amount of offsets that are required is determined by the potential to emit minus the Historic Actual Emissions. Since this modification is not considered major (see Appendix A - Major Modification Applicability Determination), then Historic Actual Emissions are equal to Historic Potential Emissions. For PM10 and PM2.5, the applicant is not requesting an increase in quarterly emissions from their existing permits, therefore, potential emissions minus Historic Potential Emissions is zero and offsets will not be required.

Section 306 Ambient Air Quality Standard.

In no case shall emissions from a new or modified stationary source prevent or interfere with the attainment or maintenance of any applicable ambient air quality standard. This application involves an increase in the 1-hour level and 8-hr level. Aermod was used to determine the impact of CO as shown below.

Pollutant	Averaging Period	Maximum Facility Impact (µg/m³)	SIL (µg/m³)	State Standard (µg/m³)	Federal Standard (µg/m³)
со	1-hour	519	2,000	23,000	40,000
	8-hour	35	500	10,000	10,000

As shown above, the CO emissions does not violate any Ambient Air Quality standard

The model parameters used are as follows. The F-factor of 8710 dscf/MMBTU was used to estimate the cfm and was not corrected to stack temperature. This is considered more conservative.

1 hr Parameters

630 MMBTU/hr 16.5% O2 Stack Flow 434,412 dscf/min

8 hr Parameters

1610 MMBTU/hr

> 15.0 % O2 Stack Flow 827,917 dscf/min

Section 309 – Denial, Adverse Impact to Visibility of a Class I Area

This section requires the Air Pollution Control Officer to deny an Authority to Construct or a Permit to Operate for a new major stationary source or major modification, if the Air Pollution Control Officer finds, after consideration of comments and an analysis from the Federal Land Manager, that the emissions from the proposed facility or modification would have an adverse impact on visibility of a Class 1 area pursuant to CFR Section 51.307(b).

Since this modification, at an existing major source, is not considered major (see Appendix A), this section does not apply.

Section 401 – Alternative Siting

Except as provided in Section 115, this section requires for major sources or major modifications for which an analysis of alternative sites, sizes, and production processes is required under Section 173(a)(5) of the Clean Air Act, the applicant provide an alternative siting analysis that is functionally equivalent to the requirements of Division 13 of the Public Resources Code. The Authority to Construct shall not be issued unless the Air Pollution Control Officer has concluded, based on the information contained in the alternative siting analysis, that the benefits of the proposed source significantly outweigh the environmental and social costs imposed as a result of its location, construction, or modification.

Section 115 states that this section does not apply if the application for Authority to Construct is not a Federal Major Modification. Since this modification is not considered major (see Appendix A), this section does not apply.

Section 404 – Enhanced New Source Review

The applicant has requested enhanced new source review. Therefore, this review will be subject to District Rule 207 Section 305 and Sections 401 through 408.

Section 413 - Sources Impacting Class 1 Areas

This section requires, for new major sources or major modifications that may affect visibility of a Class 1 area, the applicant to provide the Air Pollution Control Officer with an analysis of impairment to visibility that would occur as a result of the source or modification and general commercial, residential, industrial, and other growth associated with the project, as required by 40 CFR Section 51.307(b)(2) and 40 CFR Section 51.166.

Since this modification, at an existing major source, is not considered major (see Appendix A), this section does not apply.

Rule 217 – Public Notice Requirements for Permits

<u>Sections 401-402 – CARB, EPA, and Public Notification:</u> The public noticing requirements of Rule 217 do not apply if:

- Offsets are not required under Rule 202, Section 302.
- A visibility analysis is not required under Rule 214, Section 413.
- The increase in potential to emit for the project, calculated under Section 403 of Rule 217, is below the following limits:

Pollutant	_lb/qtr_
VOC	5,000
NOx	5,000

9,200
7,300
10 TPY
49,500

Analysis:

- As determined in Section III.2, offsets are not required.
- This permit action is not subject to Rule 214, so the visibility analysis required by Section 413 of Rule 214 is inapplicable.
- As shown below, the increase in potential to emit does not exceed the notification exemption thresholds.

Increase in Potential to emit					
Dollutont	Potential to Emit for the Project		Increase	Notification	Notification
Pollulani	Pre-Application	Post-Application	in PTE	Threshold	Required?
VOC	8,792 - 13,264	8,792 - 13,264	0 lb/qtr	≥ 5,000	No
	lb/qtr	lb/qtr			
NOx	24,209 - 26,321	24,209 - 26,321	0 lb/qtr	≥ 5,000	No
	lb/qtr	lb/qtr			
SOx	1,814 - 1,944	1,814 - 1,944	0 lb/qtr	≥ 9,200	No
	lb/qtr	lb/qtr			
PM10	9,319 – 11,444	9,319 – 11,444	0 lb/qtr	≥ 7,300	No
	lb/qtr	lb/qtr			
PM2.5	9,300 – 11,421	9,300 – 11,421	0 TPY	≥ 10 TPY	No
	lb/qtr	lb/qtr			
CO	21,265 - 22,803	47,599 lb/qtr	24,796 -	≥ 49,500	No
	lb/qtr		26,334 lb/qtr		

Though this modification is not required to conduct a public notice pursuant to Rule 217, nonetheless, this permit modification will be required to conduct a public notice as part of the Enhanced New Source Review process described in Rule 202, Section 404 and Rule 214, Section 402.

3. PROHIBITORY RULE COMPLIANCE:

Rule 401 - Ringelmann Chart

The permit will include conditions requiring that the turbine and duct burner comply with the Ringelmann No. 1 or 20% opacity standard and in the District's experience, properly maintained turbines and duct burners are able to meet the requirement. The equipment will be inspected prior to the issuance of the permit to operate and on a regular basis thereafter to ensure continuous compliance.

Rule 402 – Nuisance

This rule prohibits the discharge of air contaminants in quantities that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public. The SMAQMD regulates new and modified sources of TACs under this rule by implementing its "Risk Assessment Guidelines for New and Modified Stationary Sources," dated December 2000. These guidelines implement what is commonly known as "Toxics New Source Review."

Under the SMAQMD's toxics policy, modified projects with TAC emission increases are required to perform a screening-level health risk assessment. SPA was evaluated for health risk when it was originally permitted. However, since this evaluation was performed under the previous risk assessment guidelines, a screening HRA utilizing the newer risk calculation methodologies will be performed here. The details of the assessment can be found in Appendix C.

Health Risk Action Levels and Assessment Summary					
Type of Health Risk	Permitting T	hresholds ^(A)	Project HRA Results ^(B)		
	T-BACT	Maximum	Residential	Worker	
Cancer Risk (Chances per Million)	≥ 1.0	10.0	2.5	1.9E-1	
Acute Non-Cancer (Hazard Index)	≥ 1.0	1.0	6.6E-3	1.0E-2	
Chronic Non-Cancer (Hazard Index)	≥ 1.0	1.0	3.1E-3	3.7E-3	

The health risk action levels and results are summarized below.

(A) In certain circumstances, the District may allow a health risk in excess of the levels specified here. For more information, see SMAQMD's guidance document, Health Risk Management Programs for Existing, Modified and New Stationary Sources (2016).

(B) Results have been rounded to two significant figure.

Pollutant	EF Ib/MMBTU (A)	lb/yr (C)	lb/hr (D)	Cancer	Acute	Chronic
Ammonia	N/A (B)	192,334.88	21.956		Х	Х
Acetaldehyde	4.55E-5	5.64E+02	6.44E-02	Х	Х	Х
Acrolein	6.40E-6	9.03E+01	1.03E-02		Х	Х
Benzene	1.2E-5	1.69E+02	1.93E-02	Х	Х	Х
1,3-Butadiene	4.3E-7	6.06E+00	6.92E-04	Х	Х	Х
Ethyl Benzene	3.2E-5	4.51E+02	5.15E-02	Х		Х
Formaldehyde	7.1E-4	1.00E+04	1.14E+00	Х	Х	Х
Napthalene	1.3E-6	1.83E+01	2.09E-03	Х		Х
PAH W/O	2.2E-6	3.10E+01	3.54E-03			Х
Propylene Oxide	2.9E-5	4.09E+02	4.67E-02	Х	Х	Х
Toluene	1.3E-4	1.83E+03	2.09E-01		X	X
Xylenes	6.4E-5	9.03E+02	1.03E-01		X	X

The following pollutants and their amounts were identified:

(A) From AP-42 Table 3.1-3, 4/00 unless noted

(B) Based on 10 ppm corrected to 15% O2 ammonia slip from SCR system, 100% load, 1610 MMBTU/hr.

(C) Based on hourly emission rate at 8760 hrs/year

(D) Based on the BTU rating of the turbine and duct burner which is totaled to 1,610 MMBTU/hr

The following factors, formulas, and assumptions were taken into consideration in order to estimate the worst case excess cancer risk and the non-cancer health risks for the toxic pollutants emitted.

The project's emissions are modeled with the use of an EPA approved air dispersion model to determine the concentrations of toxic pollutants at residential and non-residential receptors surrounding the project. The model used for this analysis is Lakes Environmental's AERMOD View, Version 9.4.0. The following parameters were used as inputs to the model for each turbine:

Release Height:	48.78 meters
Gas Exit Temperature:	240 °F
Stack Diameter:	17 feet
Gas Exit Flow Rate:	827,917.49 acfm
Nominal Emission Rate:	1.0 g/s

SMAQMD utilizes the California Air Resources Board's Hotspots Analysis and Reporting Program (HARP2), Version 18159 model which incorporates the health risk assessment methodologies from the "Risk Assessment Guidelines - Guidance Manual for Preparation of Health Risk Assessments" (February 2015).

CANCER RISK ASSESSMENT:

From equation 5.4.1.1 and 8.2.4 A:

Riskair = Cair * (BR/BW) * A * EF * CPF * ED/AT * (1E-06) * (GLC) * ASF * FAH

Where:

Riskair	 Cancer risk from inhalation exposure
Cair	= Concentration (μ g/m ³)
(BR/BW)	= Breathing Rate/Body Weight
	= 361 (l/kg-day) 95%, 3 rd Trimester
	= 1090 (l/kg-day) 95%, 0<2 yrs
	= 631 (l/kg-day) 80%, 2<9 yrs
	= 572 (l/kg-day) 80%, 2<16 yrs
	= 261 (l/kg-day) 80%, 16<30 yrs
	= 233 (l/kg-day) 80%, 16<70 yrs
	= 230 (l/kg-day) 8 hr worker rate
А	= Inhalation Absorption Factor (default = 1)
EF	= Exposure Frequency
	= 350 days for Res
	= 250 days for Non-Res
CPF	= Cancer Potency Factor (kg-day/mg)
ED	= Exposure Duration, 30 years Res, 25 years Non-Res
AT	= Averaging Time, 25,550 days
ASF	 Age sensitivity factor for a specified age group
FAH	= Fraction of time spent at home (use 1 for children under 16
	when a school is within a 1 in a million cancer risk isopleth)
	= 0.85, 3 rd Trimester
	= 0.85, 0<2 yrs
	= 0.72, 2<9 yrs
	= 0.72, 2<16 yrs

 = 0.73, 16<30 yrs = 0.73, 16<70 yrs = (mg/1000 ug)*(m³/1000 l) = Ground Level Adjustment Factor = 1.0 for resident = 1.0 for worker as this equipment operates up to 24 hours per day.
uay.

CANCER RISK SUMMARY:

Permit No.	Receptor (Worst Case)	Excess Cancer Risk (risk in a million)
A/O 05705	Residential (Located at Receptor #736, UTM: 633523.43, 4264104.52)	2.5
A/C 25725	Non-Residential (Located at Receptor #585, UTM: 633342.3, 4263966.02))	1.9E-1

NON-CANCER RISK ASSESSMENT: The chronic non-cancer health risk is determined for a given pollutant by dividing the pollutant's annual average ambient air concentration (ug/m³) by the chronic reference exposure level of that pollutant in order to obtain the chronic hazard index (HI). The acute non-cancer health risk is determined by dividing the pollutant's maximum hourly ambient air concentration (ug/m³) by the acute reference exposure level in order to obtain the acute hazard index (HI). In addition, each contaminant can affect different organs of the body and several compounds may affect common organs. Therefore, when there are multiple toxic compounds involved, the effects are additive for the common organs.

A list of chronic or acutely hazardous air contaminants may be found at the OEHHA website <u>www.oehha.ca.gov</u>. The method of calculating the HI numbers (Risk Assessment Guidelines) is also found at this website.

	Target Organ Affects – Acute HI (Residential)										
Cardiovascular	Central Nervous System	Immune	Kidney	Gilv	Repro/Devel	Respiratory	Skin	Eye	Bone/Teeth	Endo	Blood
х	2.1E-6	1.5E-4	Х	Х	1.5E-4	2.3E-3	х	6.6E-3	х	х	1.5E-4

The hazard index for the organs affected are shown below:

	Target Organ Affects – Chronic HI (Residential)										
Cardiovascular	Central Nervous System	aunuuu	Kidney	Gilv	Repro/Devel	Respiratory	Skin	Eye	Bone/Teeth	Endo	Blood
х	9.7E-6	Х	2.9E-7	2.9E-7	1.2E-5	3.1E-3	Х	1.7E-6	х	2.9E-7	7.4E-5

	Target Organ Affects – Acute HI (Non-Residential)										
Cardiovascular	Central Nervous System	annmal	Kidney	Gilv	Repro/Devel	Respiratory	Skin	Eye	Bone/Teeth	Endo	Blood
Х	3.4E-6	2.3E-4	Х	Х	2.4E-4	3.6E-3	х	1.0E-2	х	х	2.3E-4

	Target Organ Affects – Chronic HI (Non-Residential)										
Cardiovascular	Central Nervous System	Immune	Kidney	Gilv	Repro/Devel	Respiratory	Skin	Eye	Bone/Teeth	Endo	Blood
x	1.2E-5	х	3.5E-7	3.5E-7	1.5E-5	3.7E-3	Х	2.0E-6	х	3.5E-7	8.8E-5

NON-CANCER RISK SUMMARY:

Permit No.	Receptor (Worst Case)	Hazard Index
	Residential - Acute (Located at Receptor #3636, UTM: 633559.98, 4263846.5)	6.6E-3
	Residential - Chronic (Located at Receptor #736, UTM: 633523.43, 4264104.52)	3.1E-3
A/C 25725	Non-Residential - Acute (Located at Receptor #1016, UTM: 633259.55, 4263279.27)	1.0E-2
	Non-Residential – Chronic (Located at Receptor #585, UTM: 633342.3, 4263966.02)	3.7E-3

HRA CONCLUSION: The health risk for this project is considered acceptable to the SMAQMD because:

- The evaluated cancer risk for a maximum exposed individual resident (MEIR) is 2.5 in one million, which is below the significant risk threshold. This reflects a change in Health Risk Assessment methodology and not a change in operation of the emissions from the facility. Therefore T-BACT will not be imposed.
- The evaluated cancer risk for a maximum exposed individual worker (MEIW) is 1.9E-1 in one million, which is below the significant risk threshold. Since the cancer risk is below 1 in one million, T-BACT is not required.
- The evaluated noncancer Acute Hazard Index is less than one for the maximum exposed individual resident (MEIR) and the maximum exposed individual worker (MEIW).
- The evaluated noncancer Chronic Hazard Index is less than one for the maximum exposed individual resident (MEIR) and the maximum exposed individual worker (MEIW).

Rule 406 - Specific Contaminants

The proposed equipment is not expected to exceed the emissions limit of 0.2% by volume sulfur compound as SO₂ and 0.1 gr/dscf for combustion contaminants calculated to 12% CO₂.

Natural Gas Fuel F-Factor Molar Volume Natural Gas HHV Conversion Factor	= = =	8,710 dscf/MMBtu 385.3 ft3/mol 1,000 BTU/lb 7,000 gr/lb	
PM10 Emission Factor	=	0.01 lb/MMBTU or 10 lb/MMCF	(worst case Duct Burner Emission Factor)
SO ₂ Emission Factor Natural Gas Fuel Density Weight % C in Natural Gas C to CO2 Conversion Efficiency	= = =	0.0006 lb/MMBTU or 0.6 lb/MMC 44,582 lb fuel/MMCF 76 % or 0.76 lb C/lb fuel 0.995	CF

PM10 Concentration (combustion contaminants):

- A. Calculate uncorrected grain loading
 - = (10 lb/MMCF) x (MMCF/1,000 MMBtu) x (7000 gr/lb) x (MMBtu/8,710 dscf)
 - = 0.008036739 gr/dscf
- B. Calculate CO₂ emission factor (Ib CO₂/MMBtu) assuming 100% C to CO₂ conversion
 - = (0.76 lb C/lb fuel) x (mol C/12.01 lb C) x (mol CO₂/mol C) x (44.01 lb CO₂/mol CO₂) x (44,582 lb fuel/MMCF) x (MMCF/1,000 MMBtu)
 - = 124.159942 lb CO₂/MMBtu
- C. Calculate lb CO₂/MMBtu at 99.5% Conversion
 - = 124.159942 lb CO₂/MMBtu × 99.5%
 - = 123.539142 lb CO₂/MMBtu
- D. Calculate volume % of CO₂ in Exhaust Gas
 - = % CO₂
 - = mol CO₂/mol exhaust
 - = (123.539142 lb CO₂/MMBtu) × (mol CO2/44.01 lb CO2) x (MMBtu/8,710 dscf) x (385.3 dscf/mol exhaust)
 - 0.12417497 mol CO₂/mol exhaust or 12.417497 % CO₂
- E. Calculate corrected grain loading
 - $= (0.008036739 \text{ gr/dscf}) \times (12\% \text{ CO}_2/12.417497 \% \text{ CO}_2)$

0.007766531 gr/dscf corrected to 12% CO2

OR

Simplified Equation

- = (10 lb/MMCF) x (7000 gr/lb) x (0.12 mol CO₂/mol exhaust) x (lb fuel/0.76 lb C) x (12.01 lb C/mol C) x
- (mol C/mol CO₂) x (MMCF/44,582 lb fuel/) / (0.995) x (mol exhaust/385.3 dscf)
- = 0.007766531 gr/dscf corrected to 12% CO₂

SO2 Concentration (% SO₂ by volume):

The following calculation is at 0% excess air which represents worst case.

- = (0.6 lb SO₂/MMCF) x (MMCF/1,000 MMBtu) x (MMBtu/8,710 dscf) x (mol SO₂/64.06 lb SO₂) x (385.3 dscf/mol exhaust)
- = 0.000000414 mol SO₂/mol exhaust or 0.0000414 % SO₂

The rule emission limits for SO_2 and PM are 0.2% SO_2 by volume and 0.1 grains/cf at 12% CO2, respectively. Therefore, the emissions from the turbine comply with Rule 406.

Rule 413 – Stationary Gas Turbines

Rule 413 prohibits NOx emissions in excess of 9 ppmvd corrected to $15\% O_2$ based on a 15min average, with exceptions for excursions, from gaseous fuel-fired turbines with a maximum electrical output rating of 10 MW or greater operating 877 hours or more per year. Rule 413 is applicable to the SPA turbine, which has a maximum electrical output rating of 103 MW and operates up to 8760 hours/year. At a permitted NOx concentration of 3 ppmvd corrected to 15% O₂ averaged over three hour, the SPA turbine complies with Rule 413 NOx limit.

Rule 420 - Sulfur Content of Fuels

This rule limits the sulfur content of all gaseous fuels to less than 50 grains per 100 cubic foot, calculated as hydrogen sulfide (H_2S). Pipeline natural gas in Sacramento County has a sulfur content of approximately 0.22 grains per 100 cubic foot. Therefore, the turbine will comply with the requirement of this rule.

4. NSPS COMPLIANCE:

40 CFR 60 Subpart A – General Provisions

All affected sources are subject to the general provisions of NSPS Subpart A unless specifically excluded by the source-specific NSPS. Subpart A requires initial notification and performance testing, recordkeeping, monitoring; provides reference methods; and mandates general control device requirements for all other subparts as applicable. SFA will continue to meet all applicable requirements of the general provisions outlined in 40 CFR 60 Subpart A.

40 CFR Part 60 Subpart GG – NSPS for Stationary Gas Turbines

NSPS GG, *Standards of Performance for Stationary Gas Turbines*, applies to stationary gas turbines with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour, based on the lower heating value of the fuel fired. Based on the construction date (pre-February 2005) and the heat input at peak loads, the combustion turbine at SPA is subject to NSPS Subpart GG. The Project is not a "modification" under NSPS because it does not result in an increase in hourly emissions of a regulated NSPS pollutant per 40 CFR 60.14. SPA will continue to comply with all applicable NSPS Subpart GG requirements as outlined in the current Title V permit.

> 40 CFR Part 60 Subpart TTTT – Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units

NSPS TTTT, Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units, applies to electric generating units that commenced construction after January 8, 2014, and/or commenced modification or reconstruction after June 18, 2014. The combustion turbine at SPA was constructed prior to January 8, 2014, and has not undergone any NSPS modification or reconstruction since the original installation. As such, NSPS Subpart TTTT does not apply to the existing unit at SPA.

5. NESHAP COMPLIANCE:

NESHAPs under 40 CFR, Part 61: The list of all adopted National Emission Standards for Hazardous Air Pollutants (https://www.law.cornell.edu/cfr/text/40/part-61) were reviewed to determine if the proposed project is subject to one or more of these regulations. There are currently no 40 CFR, Part 61 NESHAPs applicable to this source category.

NESHAPs under 40 CFR, Part 63: Due to the District not being delegated for the Part 63 NESHAPs, all Part 63 NESHAPs are enforced as Air Toxics Control Measures (ATCMs). The list of all adopted National Emission Standards for Hazardous Air Pollutants (https://www.law.cornell.edu/cfr/text/40/part-63) were reviewed to determine if the proposed project is subject to one or more of these regulations. No applicable provisions were identified.

6. ATCM COMPLIANCE: The list of all adopted Airborne Toxic Control Measures (http://www.arb.ca.gov/toxics/atcm/atcm.htm) was reviewed to determine if the proposed project is subject to one or more of these regulations. No applicable provisions were identified

This turbine modification will comply with all applicable District rules RECOMMENDATION: and regulations. An authority to construct for the modification of the turbines should be issued to Sacramento Power Authority with the following conditions.

Refer to conditions in Authority to Construct No. 25725

REVIEWED BY: Sim F Hul

DATE: 1-17-18

APPROVED BY:

DATE:

APPENDIX A

Major Modification Applicability Determination

In order to determine which calculation methodology to use for the BACT and offset trigger analysis, we must first determine if SPA is a "major stationary source" and then whether the project is a "major modification." The source is subject to both Rule 202 as well as 214 so the "major stationary source" determination must be determined for both rules.

Rule 202

SPA is a "major stationary source" per Rule 202, Section 228 for NOx per the information presented below.

Pollutant	Major Source Threshold	SPA Permit Limit	Major Source?
VOC	25	20.0	NO
NOx	25	49.9	YES
SO ₂	NA	3.7	NO
PM ₁₀	100 (or 100 tpy SOx as PM10 precursor)	22.6	NO
PM _{2.5}	100 (or 100 tpy NOx or SOx as PM _{2.5} precursor) (A)	22.5	NO
CO	100	43.7	NO

(A) At this time VOC and ammonia have not been determined to be a necessary part of the PM2.5 control strategy in the attainment demonstration nor have they been approved by EPA in the State Implementation Plan. As such they are not considered a PM2.5 precursor for the purposes of major stationary source threshold.

<u>Rule 214</u>

SPA is a "major stationary source" per Rule 214, Section 228 for NOx per the information presented below.

Pollutant	Major Source Threshold	SPA Permit Limit	Major Source?
VOC	25	20.0	NO
NOx	25	49.9	YES
SO ₂	NA	3.7	NO
PM ₁₀	100 (or 100 tpy SOx as PM10 precursor)	22.6	NO
PM _{2.5}	100 (or 100 tpy NOx or SOx as PM _{2.5} precursor) (A)	22.5	NO
CO	NA	43.7	NA

(B) At this time VOC and ammonia have not been determined to be a necessary part of the PM2.5 control strategy in the attainment demonstration nor have they been approved by EPA in the State Implementation Plan. As such they are not considered a PM2.5 precursor for the purposes of major stationary source threshold.

The methodology for determining "major modification" is the same for either Rule 202 or 214. For those pollutants (NOx) for which the source is major, it must be determined whether the project is a "major modification" for these pollutants.

Emission increases are determined by the calculation method in Rule 202 or 214, Section 411.5: The sum of the Potential to Emit for the project minus the Historic Actual Emissions, as defined in Section 224.1, for the project. However, the potential to emit, instead of historic actual emissions, can be used for emissions units if either of the following conditions applies:

- a. Actual emissions are at least 80% of the potential to emit limit, or
- b. The emissions unit was fully offset for any emissions increase during the 5 year period prior to the date that the application is deemed complete.

Though the facility was fully offset for NOx during the original permitting of the project, this happened well over 5 years ago, thus Section 411.5 (b) is not satisfied.

In determining if the 80% criteria of Section 411.5 (a) is satisfied, we must first determine the appropriate historic actual emissions (baseline).

224.1 **Existing emissions units**: Historic actual emissions for the existing emissions unit averaged over the two year period immediately preceding the date of application for an Authority to Construct.

a. If the last two years are unrepresentative of normal source operations as determined by the Air Pollution Control Officer, then any two consecutive years of the last five years that represent normal source operation may be used.

In order to determine the appropriate two year period that represents normal source operations, the applicant has elected to use the last two years of operation (April 2016 through March 2018).

Once the two-year baseline period was established, then historic actual emissions were determined for each pollutant and displayed in the table below.

Pollutant	SPA Actual Emissions Baseline (tpy)	SPA Potential to Emit Permit Limit (tpy)	Percent of Potential to Emit	Actual at Least 80% of PTE?
NOx	28.7	49.9	57.5%	NO

Since NOx emissions are less than 80% of the SPA facility PTE, the next step is to compare the "emission increase" calculated by subtracting the historic actual emissions from the future potential (permitted) emissions and compare this difference to the "major modification" emission increase thresholds in Section 227

Pollutant	Major Modification Threshold	Proposed Permit Limit	Historical Actual Emissions	Emission Increase	Major Modification?
NOx	25	49.9	28.7	21.2	NO

For NOx, the emissions increase when comparing proposed potential to actual emissions results in only a 21.2 TPY increase and thus will not be considered a major modification for this pollutant.

Based on this analysis, the proposed modification is not considered a major modification for any pollutant and as such the calculation methodology used for determining BACT and/or Offset triggers will be Proposed Potential minus Historic Potential (current permitted potential).

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Average Data Plant: SPA Cogen III Interval: 1 Month Report Period: 11/01/2012 00:00 Through Time Online Criteria: 1 minute(s)

Sou	rce	UNIT1			
Davan		NOXLBS6	0	1	
02/01/13		(ib)	-		
02/01/13	00.00	4,200.00			
	00.00	3,000.08			
04/01/13	00:00	7,340.97			
05/01/13	00:00	1,009.87			
06/01/13	00:00	3,167.74			
07/01/13	00:00	6,539.57			
08/01/13	00:00	7,002.41			
09/01/13	00:00	6,315.40			
10/01/13	00:00	4,445.88			
11/01/13	00:00	7,501.62			
12/01/13	00:00	8,064.34			
01/01/14	00:00	0.00			
02/01/14	00:00	0.00			
03/01/14	00:00	0.00	~~~**,,,,.,		
04/01/14	00:00	146.93	******		
05/01/14	00:00	687.60	** ** ** ***		
06/01/14	00:00	2,011.59	** ********		
07/01/14	00:00	5,519.94	المتكام والرحوم والم		
0B/01/14	00;00	7,275.37	*******		
09/01/14	00:00	6.509.19			
10/01/14	00:00	5 328 30		NOv	NOV
11/01/14	00.00	6 711 98			NOX
12/01/14	00.00	6,711.30 8 985 78		2 year avg	2 year avg
04/04/45	00.00	7,000.70			tons
01/01/15	00:00	7,338.04		53,797	26.9
02/01/15	00:00	4,277.09		53,808	26.9
03/01/15	00:00	3,776.36	~~~~~~	53,869	26.9
04/01/15	00:00	6,844.50	*****	53,620	26.8
05/01/15	00:00	6,821.01		56,526	28.3
06/01/15	00:00	6,738,30		58,311	29.2
07/01/15	00:00	6,771.46		58,427	29.2
08/01/15	00:00	6,824.84		58,339	29.2
09/01/15	00:00	6,742.91		58,552	29.3
10/01/15	00:00	4,290.38		58.474	29.2
11/01/15	00:00	7,154.60	~~~~~~~~~	58.301	29.2
12/01/15	00:00	7,543.32		58 040	29.0
01/01/16	00:00	8,061.93	~~~~~~~~	62 071	31.0
02/01/16	00:00	4,239.91		64 101	32.1
03/01/16	00:00	288.72	~~~~~	64 335	32.1
04/01/16	00:00	4,885,95	* 30 ### 2007	66 705	32.2
05/01/16	00:00	4 623 61	*********	00,705	33.4
06/01/16	00:00	4 583 00	*****	08,073	34.3
07/04/46	00.00	4,000,02		69,959	35.0
00104140	00.00	6,147.10		70,272	35.1
06/01/16	00:00	7,395.89		70,332	35.2
09/01/16	00:00	7,024.59		70,590	35.3
10/01/16	00:00	7,636,12		71,744	35.9
11/01/16	00:00	5,045.80		70,911	35.5
12/01/16	00;00	7,721.94		71,339	35.7
01/01/17	00:00	5,725.45		70,532	35.3
02/01/17	00:00	1,958,91		69.373	34.7
03/01/17	00:00	1,354.88	~~~~	68,163	34.1
04/01/17	00:00	2,888.01	~~~~~	66 184	33.1
05/01/17	00;00	1,377.97		63 463	31 7
06/01/17	00;00	2,327.15		61 257	30.6
07/01/17	00:00	5,368.07	*******	60 556	30.0
08/01/17	00:00	5.105.35	******	50 606	20.3
09/01/17	00:00	4 891 92	~~~~~~	59,090	29.0
10/01/17	00.00	5 50/ 52		50,770	29.4
11/01/47	00,00	0,004.00		59,422	29.7
10/04/47	00.00	0,0/0,02	******	57,683	28.8
14/01/17	00:00	5,409.20		56,616	28.3
00/01/18	00:00	6,232.60		55,702	27.9
02/01/18	00;00	4,321.58		55,743	27.9
3/1/2018	00:00	3,539.85	1	57,368	28.7

Appendix B BACT 203

UNDER PUBLIC REVIEW SMAQMD BACT CLEARINGHOUSE

ATEGOR	ŕ:		TURBINE				
ACT Size:	Minor Source	BACT	GAS TURBIN				
BACT Dete	ermination Numbe	er: 203	BACT Determination Date:				
Equipment Information							
Permit Nur	mber: 25800						
Equipment	t Description:	GAS TURBINE					
Jnit Size/F	Rating/Capacity:	Turbine, 2200 mmBTU/	hr				
Equipment	t Location:	SMUD FINANCING AU	THORITY (COSUMNES POWER PLANT)				
14295 CLAY EAST RD							
		HERALD, CA					
		BACT Determina	tion Information				
ROCs	Standard:	1.0 ppmvd @t 15% O2, 3-Hr Av	g, Oxidation Catalyst				
	Technology Description:	Oxidation Catalyst					
	Basis:	Achieved in Practice					
NOx	Standard:	2.0 ppmvd @ 15% O2, 1-Hr Avg	1				
	Technology Description:	gy SCR or Equivalent					
	Basis:	Achieved in Practice					
SOx	Standard: Natural Gas or Equiv. that meets 0.7 gr S/100scf Technology Description:						
	Basis:	Achieved in Practice					
PM10	Standard:	Natural Gas or Equiv. that meet	s 0.7 gr S/100scf				
	Technology Description:						
	Basis:	Achieved in Practice					
PM2.5	Standard:	Natural Gas or Equiv. that meet	s 0.7 gr S/100scf				
	Technology Description:						
	Basis:	Achieved in Practice					
CO	Standard:	2.0 ppmvd @t 15% O2, 1-HR av	/g, Oxidation Catalyst				
	Technology	Oxidation Catalyst					
	Description:	Ashieved in Deseites					
	Basis:	Achieved in Placuce					
LEAD	Standard:						
	Description:						
	Basis:						
comments	::	(rohe Dhopo No - 1018) 974 4958 amail: bkrabe@aimualibe.com				
District (Contact: Brian P	rebs Phone No.: (916) 8/4 -4856 email: bkrebs@airquality.org				
Authority to Construct Evaluation A/C 25725 Page 36

Appendix C - HRA

REC 736	8636	Resident REC 736	REC 585	REC 1016	Non-Re REC 585
ALL	ALL	ALL	ALL	GRP	GRP ALL
NETID	NETID	NETID	NETID	NETID	NETID
UCART2		UCART2	UCART2	UCART3	UCART2
X	X	X	X	X	X
633523.4	63356	633523	633342	633259.	633342
Y	Y	Y	Y	Y	Y
4264105	4263847	1 426410	426396	6 426327	3 426396
SCENARIO	SCENARIO	8 SUM 2.54E-06	SCENARIO	SCENARIO	RISK SUM
5 NonCancerChronicDerived inhSoilDermMMilk	7 NonCancerAcute		56 NonCancerChronicDerived InhSoliDerm	19 NonCancerAcute	56 1.85E-07
CV CNS IMMUN KIDNEY GEUV REPRO/DE RESP SKIN EYE BONE/TEE ENDO ODOR GENERAL MAXHI 0.00E+00 9.5/7E-06 0.00E+00 2.95E-07 1.22E-05 3.08E-03 0.00E+00 1.69E-06 0.00E+00 2.95E-07 7.37E-05 0.00E+00 3.08E-03	CV CNS IMMAUN KIDNEY GLV REPRO/DE RESP SKIN EYE BONE/TEE ENDO BLOOD ODOER GENERAL MAXHI 0.00E+00 2.14E-06 1.48E-04 0.00E+00 0.00E+00 6.50E-03 0.00E+00 <	SCENARIO INH RISK SOLL RISK DERMAL RIMMILK RIMATER RIFISH RISK CROP RISK BEEF RISK DAIRY RIS PIG RISK CHICKEN FEGG RISK 307rCancel 2.93E-07 1.66E-06 1.47E-07 4.41E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	CV ONS IMMUN KIDNEY GLV REPRO/DE RESP SKIN EYE BONE/TEE ENDO BLOOD ODOR GENERAL MAXH 0.00E+00 1.16E-05 0.00E+00 3.53E-07 1.47E-05 3.70E-03 0.00E+00 2.02E-06 0.00E+00 3.53E-07 8.83E-05 0.00E+00 3.77E	CV CNS IMMUN KIDNEY GILV REPRO/DE RESP SKIN EVE BONE/TEE ENDO BLOOD ODOR GENERAL MAXHI 0.00E+00 3.36E-06 2.33E-04 0.00E+00 2.40E-04 3.63E-03 0.00E+00 1.04E-02 0.00E+00 2.33E-04 0.00E+00 0.00E+00 1.04E-02 0.00E+00 2.33E-04 0.00E+00 1.04E-02 0.00E+00 2.03E+00 0.00E+00 1.04E-02 0.00E+00 2.33E-04 0.00E+00 0.00E+00 1.04E-02 0.00E+00 2.33E-04 0.00E+00 1.04E-02 0.00E+00 2.33E-04 0.00E+00 0.00E+00 1.04E-02 0.00E+00 2.33E-04 0.00E+00 1.04E-02 0.00E+00 2.33E-04 0.00E+00 1.04E-02 0.00E+00 2.33E-04 0.00E+00 1.04E-02 0.00E+00 2.33E-04 0.00E+	SCENARO INH, RISK SOIL RISK DERMAL RIMMILK RIMATER RIFISH RISK CROP RISKBEEF RISK DAIRY RIS PG RISK CHICKEN FEGG RISK 2577 Cancel 2.97E-08 8.40E-08 7.28E-08 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00



METEOROLOGIC: Version: Surface File:	<pre>AIR DISPERSI Versions used i (http://www.epa AERMOD: 18081 AERMAP: 18081 BPIPPRM: 04274 AERPLOT: 13329</pre>	107028 71432 100414 50000 91203 1151 75569 108883 1330207 7664417	PolID 106990	**+POILUTANT H Health Databas Health Table v Official: True	108883MAXHR.txt 1151MAXHR.txt 1151MAXHR.txt 130207MAXHR.txt 1330207MAXHR.tx 50000PER.txt 71432MAXHR.tx 71432PER.txt 75070MAXHR.txt 75569PER.txt 75569PER.txt 75569PER.txt 7664417PER.txt 7664417PER.txt 91203MAXHR.txt
AL INFORMATION***	ON MODELING INFO n HARP. All exec .gov/scram001/)	Acetaldehyde Acrolein Benzene Ethyl Benzene Formaldehyde Naphthalene PAHs-w/o Propylene Oxide Toluene Xylenes NH3	PolAbbrev 1,3-Butadiene	EALTH INFORMATION e: C:\HARP2\Table ersion: HEALTH18	
	WATION*** utables were ob	0.01 0.1 0.0087 0.021 0.12 3.9 0.013	InhCancer	ν*** ≥s\HEAL/TH17320.π 121	
	Jtained from ∪SE	12	OralCancer	ndib	
	BPA's Support C	470 2.5 27 55 3100 37000 22000 32000	AcuteREL		
	enter for Regulator	140 200 200 200 30 200 200 200 200	InhChronicREL		
	y Atmospheric Mod		OralChronicREL		
	eling website	ου 00 7	InhChronic8HRREL		

HARP Project Summary Repor	t 11/9/2018 11:37;	ח1 אב n1					
PROJECT INFORMATION HARP Version: 18159 Project Name: 25725NRHARP Project Output Directory: j HARP Database: NA	::\SSD FOLDERS\Mod	eling\25500-259	99\25725nr\25725NF	HARP			
FACILITY INFORMATION Origin X (m):0 Y (m):0 Zone:1 No. of Sources:0 No. of Buildings:0							
EMISSION INVENTORY No. of Pollutants:12 No. of Background Pollutant	s:0						
Emissions ScrID StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (1bs/hr)	MWAF
stck1 0	Þ	4 2 1 2 2 2					
stoki 0	0	75070	1,3-Butadiene Acetaldehvde		6.06	0.000692	H
stck1 0) c	107028	Acrolein	, د سم	204 90 2	0.0644	₩
stck1 0	00	100414	Benzene	H	169	0.0193 5010.0	→ ⊢⊷
STCKT 0	0	50000	Formaldehvde	ы н ы	451	0.0515	⊢
stck1 0	00	91203	Naphthalene	-	10000	1.14	⊷⊣
stck1 0	0 0	75520	PAHS-W/O	щ	ω. 1	0 00209 01010	سم د
stoki 0	0	108883	Propylene Oxid	נים הים ה	409	0.0467	⊢→⊢
stck1 0	00	1330207 7664417	Xylenes NH3	-4 ←4 ←		0.209	₩ ₩
Background PolID PolAbbrev	Conc (ug/m^3)	MWAF			49432	21,96	Щ
Ground level concentration fi	les (\glc\)						
100414MAXHR.txt 100414PER.txt 106990MAXHR.txt 106990PER.txt 107028MAXHR.txt 1077028PER.txt							
					-		

Profile File: Surface Station: Upper Station: On-Site Station: ***LIST OF RISK ASSESSMENT FILES*** Health risk analysis files (\hra\) AERMOD Input File: AERMOD Output File: AERMOD Error File: Plotfile list ***LIST OF AIR DISPERSION FILES***

25725nrharpoutHRAInput.hra 25725nrharpoutNCAcuteRisk.csv 25725nrharpoutNCAcuteRiskSumByRec.csv 25725nrharpoutNCChronicRisk.csv 25725nrharpoutNCChronicRiskSumByRec.csv 25725nrharpoutNutput.txt 25725nrharpoutPathwayRec.csv 25725nrharpoutPathwayRec.csv 25725nrharpoutPolDB.csv ~\$725nrharpoutOutput.txt 25725nrharpoutCancerRisk.csv 25725nrharpoutCancerRiskSumByRec.csv 25725nrharpoutGLCList.csv

Spatial averaging files (\sa\)

HARP2 - HRACalc (dated 17023) 10/5/2018 11:55:11 AM - Output Log GLCs loaded successfully Pollutants loaded successfully Pathway receptors loaded successfully ******* RISK SCENARIO SETTINGS Receptor Type: Worker Scenario: All Calculation Method: Derived ***** EXPOSURE DURATION PARAMETERS FOR CANCER Start Age: 16 Total Exposure Duration: 25 Exposure Duration Bin Distribution 3rd Trimester Bin: 0 0<2 Years Bin: 0 2<9 Years Bin: 0 2<16 Years Bin: 0 16<30 Years Bin: 0 16 to 70 Years Bin: 25 ********** PATHWAYS ENABLED NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments. Inhalation: True Soil: True Dermal: True Mother's milk: False Water: False Fish: False Homegrown crops: False Beef: False Dairy: False Pig: False Chicken: False Egg: False INHALATION Daily breathing rate: Moderate8HR **Worker Adjustment Factors** Worker adjustment factors enabled; NO **Fraction at time at home** 3rd Trimester to 16 years: OFF 16 years to 70 years: OFF SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05Soil mixing depth (m): 0.01 Dermal climate: Mixed *********** TIER 2 SETTINGS Tier2 not used. ************ Calculating cancer risk Cancer risk breakdown by pollutant and receptor saved to: C:\25725nr\25725NRHARP\hra\25725nrharpoutCancerRisk.csv Cancer risk total by receptor saved to: C:\25725nr\25725NRHARP\hra\25725nrharpoutCancerRiskSumByRec.csv Calculating chronic risk Chronic risk breakdown by pollutant and receptor saved to: C:\25725nr\25725NRHARP\hra\25725nrharpoutNCChronicRisk.csv Chronic risk total by receptor saved to: C:\25725nr\25725NRHARP\hra\25725nrharpoutNCChronicRiskSumByRec.csv Calculating acute risk Acute risk breakdown by pollutant and receptor saved to: C:\25725nr\25725NRHARP\hra\25725nrharpoutNCAcuteRisk.csv Acute risk total by receptor saved to: C:\25725nr\25725NRHARP\hra\25725nrharpoutNCAcuteRiskSumByRec.csv HRA ran successfully

```
**
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 11/9/2018
** File: C:\25725nr\25725nrinput2.inp
**
**
**
*************************************
** AERMOD Control Pathway
******
* *
**
CO STARTING
  TITLEONE C:/SPA
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 466488 Sacramento
  POLLUTID SO2
  RUNORNOT RUN
CO FINISHED
**
** AERMOD Source Pathway
***********************************
* *
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION STK1 POINT 633087,100 4263610,400
                                                        6.400
** DESCRSRC Gas Fired Turbine, worst case 1hr Startup Emissions
** Source Parameters **
  SRCPARAM STK1
                          1.0
                               30.480
                                      388.706 18.52945
                                                          5.182
** Building Downwash **
  BUILDHGT STK1
                       22.08
                            22.08 22.08 22.08
22.08 22.08 22.08
                                      22,08 22,08
                                                      22.08
                                                             22.08
  BUILDHGT STK1
                       22.08
                                                      22.08
                                                             22.08
  BUILDHGT STK1
                       22.08 22.08
                                      22.08 22.08
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                       22.08 22.08 22.08 22.08 22.08
  BUILDHGT STK1
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  BUILDHGT STK1
                                                            22.08
  BUILDHGT STK1
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  BUILDWID STK1
                       29.2229.5629.0020.8417.3313.30
                                    29.00 27.56 25.87
                                                             23.72
  BUILDWID STK1
                                             17,33
                                                     20.84
                                                             23.72
  BUILDWID STK1
                      25,87 27,68
                                      29.10
                                             29.63
                                                     29.26
                                                             28.00
  BUILDWID STK1
                      29.22 29.56
                                           27,56 25.87
                                      29.00
                                                             23.72
  BUILDWID STK1
                       20.84
                            17.33 13.30 17.33
                                                    20.84
                                                             23.72
  BUILDWID STK1
                      25.87
                              27.68 29.10
                                             29.63 29.26
                                                             28.00
  BUILDLEN STK1
                       17.33
                            20.84 23.72 25.87 27.68
                                                             29.10
  BUILDLEN STK1
                      29.63 29.26 28.00
                                             29.22
                                                    29.56
                                                             29.00
  BUILDLEN STK1
                       27.56
                              25.87
                                      23.72
                                             20.84
                                                     17.33
                                                             13.30
  BUILDLEN STK1
                       17.33
                              20.84
                                      23.72
                                              25,87
                                                     27.68
                                                             29.10
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	BUILDLEN	STK1		2	9.63	29.26	28	.00	29 2	2	20 50		
	ROITDFEN	STK1		21	7.56	25.87	23	.72	20.8	4	29.56 17.33	29.(13.3	20 30
	XBADJ	STK1		- 9	.63	-13.07	-16	.11	-18 60	5	20 05		
	ABADJ VDAD Z	STK1		-22	.69	-22.69	-22	.00	-22 94	5 -	-20.00	-22.0	00
	ABADJ VRND T	STKI		-21	.61	-19.81	-17	.41	-14 48	2 _	"ZJ.ZU .11 11	-22.7	5
	XBADJ	STK1		-7	.70	-7.77	-7	.61	-7 21	, ~	- 4 I . 4 I 7 04	/ 4	0
	XBADJ	STK1		-6	.94	-6.57	-6	.00	-6 25	,	-7.04	-7.1	.0
	XBADJ	STK1		-5	.95	-6.06	-6	.31	-6.37	1	-6.23	-6.2	0
	YBADJ	STK1		8	.34	8,42	8	25	7 0 2		<	•••	Ū
	YBADJ	STK1		4	.06	2.44	ñ	75	-0.00		6.87	5.5	5
	YBADJ	STK1		-5	.72	-6,80	-7	.45	-0.90		-2.65	-4.2	5
	YBADJ	STK1		-8	.34	-8.42	-8.	25	-7 03		-8.06	-8.0	0
	IBADJ	STK1		-4	.06	-2.44	-0.	75	/.03 0.06		-6.8/	-5.5	5
	IBADO	STK1		5	.72	6.80	7.	45	7.88		2.65 8.06	4.2 8.0	5 0
	URBANSRC	ALL										0.0	~
	SRCGROUP	STK1	STK1										
so	SRCGROUP FINISHED	ALL											
**													
***	**************	*****	******	*****	*****	***							
***	ACKMOD Re:	ceptor *****	Pathway	7									
**			• • • • • • • •	*****	*****	* * *							
* *													
RE	STARTING												
	GRIDCART (JCART1	STA										
			XYINC	63310	0 70 0	1 05 01							
			ELEV	1	2.13 Z	1 25.84	4263	578.95	21 11	.72			
			ELEV	1	67	0 6 0 6	.40	6.4	0	6.50	6.	60	6.60
			ELEV	1	6 7		.70	6.7	0	6.70	6.	70	6.70
			ELEV	7	7.0	, b 1 7	.70	6.7	0	6.70	6.	70	6.80
			ELEV	2	6 40		.00	7.0	0				
			ELEV	2	6 70)))	.40	6.4	0	6.50	6.	70	6.70
			ELEV	2	6 70		.70	6.7	0	6.70	6.	70	6.70
			ELEV	2	7 00	ט י ד ו	• 70	6.7	0	6.70	6.8	30	6.80
			ELEV	3	6 40		.00	7.0	0	_			
			ELEV	3	6 70		-40 70	6.5	0	6.60	6.7	70	6.70
			ELEV	3	6.70		70	6.7	0	6.70	6.7	70	6.70
			ELEV	3	7.00	· 0.	. 70	6./0		6.80	6.9	90	6.90
			ELEV	4	6.40	6	40	7.UU 6.E/		c m o			
			ELEV	4	6.70	6	70	0.00		5.70	6.7	0	6.70
			ELEV	4	6.70	6	70	6.70		5.70	6.7	0	6.70
			ELEV	4	7.00	7.	00	7.00) (5.90	7.0	0	7.00
			ELEV	5	6.40	6.	50	6.60)) f	5.70	6 7	0	6 70
			ETEA	5	6.70	6.	70	6.70) 6	5.70	67	0	0.70
			ELEV	5	6.70	6.	70	6.80) F	5.90	7 0	0	6,70
			ELEV	5	7.00	7.	00	7,00)		7.0	U	7.00
			LLEV	6	6.40	6,	50	6.70	e e	.70	6 7	0	6 70
			ELEV	6	6.70	6.	70	6.70	r f	.70	6.7 6.7	Ő.	0./U
			LLEV	6	6.70	6.	70	6,90	7	.00	v./ "∩	0	v./U 7.00
			ELEV Die	6	7.00	7.	00	7.00	*		1.0	U .	1.00
			ELEV	7	6.40	6.	50	6.70	6	.70	6 7	n	6 70
			ELEV	7	6.70	6.	70	6,70	6	70	ο.7 κ. τ.	o n	0./U 6 70
			ELEV BI DI	7	6.70	6.	70	6.90	7	.00	5.71 7 Oi	ן ר	9,/U 7 00
			ELEV	7	7.00	7.0	00	7.00	,		7.04	J	1.00

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ELE	EV 8	6.40	6.50	6.70	6 70	6 70	6 50
ELE	EV 8	6.70	6.70	6.70	6.70	6.70	6.70
ELE	SV 8	6.70	6.80	7 00	7 00	0.70	6.70
ELE	1V 8	7.00	7.00	7.00	7.00	7.00	7.00
ELE	IV 9	6.40	6.50	6 70	6 70	6 30	A H A
ELE	V 9	6.70	6.70	6 70	6.70	6.70	6.70
ELE	IV 9	6.70	6.90	7 00	0.70	6.70	6.70
ELE	IV 9	7.00	7.00	7.00		7.00	7.00
ELE	V 10	6.50	6.60	6 70	6 70	6 50	_
ELE	V 10	6.70	6 70	6 70	6.70	6.70	6.70
ELE	V 10	6.70	7 00	7 00	0.70	6.70	6.70
ELE	V 10	7.00	7 00	7.00	7.00	7.00	7.00
ELE	V 11	6.50	6 70	7.00	6 50		
ELE	V 11	6 70	6 70	6.70	6.70	6.70	6.70
ELE	V 11	6 70	7.00	6.70	6.70	6.70	6.70
ELE	V 11	7 00	7.00	7.00	7.00	7.00	7.00
ELE	V 12	6 60	7.00	7.00	.		
 E1:E	V 12	6 70	6.70	6.70	6.70	6.70	6.70
ELE	v 12	6.70	0.70	6.70	6.70	6.70	6.70
ELE	v 12	7.00	7.00	7.00	7.00	7.00	7.00
	v 12. 17 12	7.00	7.00	7.00			
בינה מקוק	v 10	6.6U	6.70	6.70	6.70	6.70	6.70
ਅਰ ਦ ਹਰ ਸਭ	V 10	6.70	6.70	6.70	6.70	6.70	6.70
ים דים ים דים	V 10	6.80	7.00	7.00	7,00	7.00	7.00
n de la companya de l La companya de la comp	V 13	7.00	7.00	7.00			
and And	V 14 7 14	6.60	6.70	6.70	6.70	6.70	6.70
다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다	/ <u>14</u> 7 14	6,70	6.70	6.70	6.70	6.70	6.70
ាមារ។ រធរាជ	/ 14 7 14	7.00	7.00	7.00	7.00	7.00	7.00
신고대전	/ <u>14</u> 7 15	7.00	7.00	7.00			
	/ 10 7 10	6.60	6,70	6.70	6.70	6.70	6.70
र या स्व	/ 10 / 15	6.70	6.70	6.70	6.70	6.70	6.80
र व्यय	/ 15 7 15	7.00	7.00	7.00	7.00	7.00	7.00
다 나다 V 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다	/ 10	7.00	7.00	7,00			
V 관산 대 기도 가도		6.70	6.70	6.70	6.70	6.70	6.70
546V BI DI	10	6.70	6.70	6.70	6.70	6.80	6.90
ក្រុង ភូមិគ្រូក	16	7.00	7.00	7,00	7,00	7.00	7.00
ビードク	16	7,00	7,00	7.00			
ELEV	17	6.70	6.70	6.70	6.70	6.70	6.70
ELEV	17	6.70	6,70	6.70	6.70	6.80	7.00
ELEV	17	7.00	7.00	7.00	7.00	7.00	7.00
ELEV	17	7.00	7.00	7.00			
ELEV	18	6.70	6.70	6,70	6.70	6.70	6 70
ELEV	18	6.70	6.70	6.70	6.80	6.90	7 00
ELEV	18	7.00	7.00	7.00	7.00	7.00	7.00
ELEV	18	7.00	7.00	7.00			
ELEV	19	6.70	6.70	6.70	6.70	6.70	6 70
ELEV	19	6.70	6.70	6.70	6.80	7.00	7 00
ELEV	19	7.00	7,00	7.00	7.00	7.00	7.00
ELEV	19	7.00	7.00	7.00		1.00	1.00
ELEV	20	6.70	6.70	6.70	6.70	6 70	6 70
ELEV	20	6,70	6.70	6.70	6 90	7 00	0.70
ELEV	20	7.00	7.00	7.00	7.00	7.00	7.00
ELEV	20	7.00	7.00	7 00	1.00	1.00	7.00
ELEV	21	6.70	6.70	6 70	6 70	6 70	A B b
ELEV	21	6.70	6,70	6 80	6 00	0./0	6.70
ELEV	21	7.00	7,00	7 00	7 00	7.00	7.00
ELEV	21	7.00	7.00	7.00	7.00	7.00	7.00
HILL	1	6.40	6 40	6 40		6 6 6	
HILL	1	6.70	6 70	6 70	0.5U	6.60	6,60
		U • 1 U	0.70	0.70	6.70	6.70	6,70

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HILL	1	6.70	6.70	6.70	6.70	6 70	6 90
HILL	1	7.00	7.00	7.00		0.70	0.00
HILL	2	6.40	6.40	6.40	6.50	6.70	6 70
HILL	2	6.70	6.70	6.70	6.70	6,70	6 70
HILL	2	6.70	6.70	6.70	6.70	6.80	6 80
HILL	2	7.00	7.00	7.00			0.00
HILL	3	6.40	6.40	6.50	6.60	6.70	6 70
HILL	3	6.70	6.70	6,70	6.70	6.70	6.70
HILL	3	6.70	6,70	6.70	6.80	6.90	6 90
HILL HTTT	3	7,00	7.00	7.00			0,00
비고고	4	6.40	6.40	6.50	6.70	6.70	6 70
HTTT	4	6.70	6.70	6.70	6.70	6.70	6.70
111111	4	6.70	6.70	6,70	6,90	7.00	7.00
대표 12 11 대표 12 11	4	7.00	7.00	7.00			
다.나.나.	5	6.40	6.50	6.60	6.70	6.70	6.70
다.나.나 다	5	6.70	6.70	6.70	6.70	6.70	6.70
다고 니니. 다구구구	С Г	6.70	6.70	6.80	6.90	7.00	7.00
ᆧᅸᄑ	5	7.00	7.00	7.00			
11.1. L.L.	o C	6.40	6.50	6.70	6.70	6.70	6.70
עריד דידע איד דידע	6	6.70	6.70	6.70	6.70	6.70	6.70
ᅜᆍᆈᆈ	¢ C	6.70	6.70	6.90	7.00	7.00	7.00
*** 전체	0 '7	7.00	7.00	7.00			
ᆧᆂᆆᄱ	/	6.40	6.50	6.70	6,70	6.70	6.70
	7	6.70	6.70	6.70	6.70	6.70	6.70
	י ר	6.70	6.70	6.90	7.00	7.00	7,00
НТТ.Т.	γ Ω	7.00	7.00	7.00			
нтг.т.	0	6.40	6.50	6.70	6.70	6.70	6.70
нттт Т	0 0	6.70	6.70	6.70	6.70	6.70	6.70
итт.т 11.1.1.1.1	0	6,70	6.80	7.00	7.00	7.00	7.00
	0 0	7.00	7.00	7.00			
нтт.т.	9	0.4U 6.70	6.50	6.70	6,70	6.70	6.70
HTLL.	Ğ	6.70	6.70	6.70	6,70	6.70	6.70
HTT.T.	a	7.00	6.90	7.00	7.00	7.00	7.00
HTTT	10	6.50	7.00	7.00			
HTLL.	10	6 70	6.60	6.70	6.70	6.70	6,70
HTTT	10	6.70	0.70	6.70	6,70	6.70	6.70
HILL	10	7 00	7,00	7.00	7.00	7.00	7.00
HILL	11	6 50	6.70	7.00	6 5 6		
· HTT.T.	11	6 70	6.70	6.70	6.70	6.70	6.70
HILL	11	6 70	7.00	6.70	6.70	6.70	6.70
HILL	11	7 00	7.00	7.00	7.00	7.00	7.00
HILL	12	6 60	6.70	7.00	C M C		
HILL	12	6.70	6.70	6.70	6,70	6.70	6.70
HILL	12	6 70	7 00	0.70	6.70	6.70	6.70
HILL	12	7.00	7.00	7.00	7.00	7.00	7.00
HILL	13	6.60	6 70	6 70	6 70	C N C	
HILL	13	6.70	6 70	6.70	6,70	6.70	6.70
HILL	13	6.80	7 00	7.00	0.7U 7.00	6.70	6.70
HILL	13	7.00	7.00	7.00	7.00	7.00	7.00
HILL	14	6.60	6.70	6.70	6 70	6 70	
HILL	14	6.70	6.70	6.70	670	0,/U 6 70	6.70
HILL	14	7.00	7.00	7.00	7 00	0.70	6.70
HILL	14	7.00	7.00	7,00	1.00	7.00	1.00
HILL	15	6.60	6.70	6.70	6 70	6 70	
HILL	15	6.70	6.70	6 70	6 70	0,/U 6 70	6.70
HILL	15	7.00	7.00	7.00	7 00	¢,/U	6.80
HILL	15	7,00	7.00	7.00	7.00	7.00	1.00
			· · •				

i.

	HILL HILL HILL HILL	16 16 16	6.70 6.70 7.00	6.70 6.70 7.00	6.70 6.70 7.00	6.70 6.70 7.00	6.70 6.80 7.00	6.70 6.90 7.00
	HILL HILL HILL HILL	17 17 17 17	6.70 6.70 7.00 7.00	7.00 6.70 6.70 7.00 7.00	7.00 6.70 6.70 7.00	6.70 6.70 7.00	6.70 6.80 7.00	6.70 7.00 7.00
	HILL HILL HILL HILL	18 18 18 18	6.70 6.70 7.00 7.00	6.70 6.70 7.00 7.00	7.00 6.70 7.00 7.00	6.70 6.80 7.00	6.70 6.90 7.00	6.70 7.00 7.00
	HILL HILL HILL HILL	19 19 19 19	6.70 6.70 7.00 7.00	6.70 6.70 7.00 7.00	6.70 6.70 7.00 7.00	6.70 6.80 7.00	6.70 7.00 7.00	6.70 7.00 7.00
	HILL HILL HILL HILL	20 20 20 20	6.70 6.70 7.00 7.00	6.70 6.70 7.00 7.00	6.70 6.70 7.00 7.00	6.70 6.90 7.00	6.70 7.00 7.00	6.70 7.00 7.00
	HILL HILL HILL HILL	21 21 21 21	6.70 6.70 7.00 7.00	6.70 6.70 7.00 7.00	6.70 6.80 7.00 7.00	6.70 6.90 7.00	6.70 7.00 7.00	6.70 7.00 7.00
GRIDCART UCAN GRIDCART UCAN	RT1 END RT2 STA XYINC	63286	9.02 21 2	7.84 42638	321.36 21	24.11		
	ELEV ELEV ELEV ELEV	1 1 1 1	6.10 6.70 6.70	6.50 6.70 6.70	6.50 6.70 6.70	6.40 6.70 6.70	6.40 6.70 6.70	6.50 6.70 6.90
	ELEV ELEV ELEV	2 2 2	6.70 6.70 6.70	7.00 6.70 6.70 6.70	7.00 6.60 6.70 6.70	6.60 6.70 6.70	6.60 6.70 6.80	6.70 6.70 7.00
	ELEV ELEV ELEV ELEV	2 3 3 3	7.00 7.30 6.70 6.70	7.00 7.00 6.70 6.70	7.00 6.80 6.70	6.70 6.70	6.70	6.70 6.70
	ELEV ELEV ELEV	3 4 4	7.00 7.60 6.70	7.00 7.20 6.70	7.00 6.90 6.70	6.80 6.70	7.00 6.70 6.70	6.70 6.70
	ELEV ELEV ELEV ELEV	4 4 5 5	6.80 7.00 7.60 6.70	6.80 7.00 7.40 6.70	7.00 7.00 7.10 6.70	7.00 7.00	7.00 6.90	7.00 6.70
	ELEV ELEV ELEV	5 5 6	7.00 7.00 7.60	7.00 7.00 7.40	7.00 7.00 7.30	7.00	6.70 7.00 7.00	6.70 7.00 6.80
	ELEV ELEV ELEV ELEV	6 6 7	6.70 7.00 7.00 7.60	6.70 7.00 7.00 7.40	6.70 7.00 7.00 7.30	6.70 7.00	6.70 7.00	7.00 7.00
	ELEV ELEV ELEV	7 7 7	6.90 7.00 7.00	6.90 7.00 7.00	6.90 7.00 7.10	6.90 7.00	7.00 6.90 7.00	7.00 7.00 7.00
	ELEV ELEV ELEV	8 8 8	7.60 7.00 7.00	7.40 7.00 7.00	7.30 7.00 7.00	7.20 7.00 7.00	7.10 7.00 7.00	7.00 7.00 7.00

ELEV	8	7.00	7.10	7.20			
ELEV	9	7.60	7.40	7.30	7 30	7 10	7 00
ELEV	9	7.00	7.00	7.00	7.00	7.10	7.00
ELEV	9	7.00	7.00	7.00	7.00	7.00	7.00
ELEV	9	7.00	7.20	7.30	/.00	7.00	7.00
ELEV	10	7.60	7.40	7 30	7 20	7 00	
ELEV	10	7.00	7.00	7.00	7.30	7.20	7.00
ELEV	10	7.00	7.00	7.00	7.00	7.00	7.00
ELEV	10	7.00	7.20	7.00	7.00	7.00	7.00
ELEV	11	7.60	7 40	7 30	7 20	7 00	
ELEV	11	7.00	7 00	7.00	7.30	7.30	7.20
ELEV	11	7.00	7.00	7.00	7.00	7.00	7.00
ELEV	11	7.00	7 20	7.00	7.00	7.00	7.00
ELEV	12	7 40	7 30	7.30	7 00		
ELEV	12	7 00	7,00	7.30	7.30	7.30	7,20
ELEV	12	7.00	7.00	7.00	7.00	7.00	7.00
ELEV	12	7.00	7.00	7.00	7.00	7.00	7.00
FIFV	13	7.10	7.30	7,30			
ELEV	13	7.40	7.30	7.30	7.30	7.30	7.20
ELEV	13	7.20	7.10	7.00	7.00	7.00	7.00
ELEV	13	7.00	7.00	7.00	7.00	7.00	7.00
ELEV	11	7.20	7.30	7.30	-		
FLEV	11	7.40	7.30	7.30	7.30	7.30	7,30
	14	7.30	7.20	7.10	7.00	7.00	7.00
ELEV FLEV	11	7.00	7.00	7.00	7.00	7.00	7.10
	15	7.20	7.30	7.30			
FTFV	15	7.40	7.30	7.30	7.30	7.30	7.30
VULLA	15	7.30	7.30	7.20	7.10	7.00	7.00
ET.EV	15	7.00	7.00	7.00	7.00	7.00	7.20
ELEV	16	7.30	7.30	7.30			
ET.EV	16	. 7.40	7.30	7.30	7.30	7.30	7.30
ELEV	16	7.30	7.30	7.30	7.30	7.30	7.00
	16	7.00	7.00	7.00	7.00	7.00	7,20
יאנונגע דידידי	ц0 17	7.30	7.30	7.30			
	1.7	7,40	7.30	7.30	7.30	7.30	7.30
עמעמי	1.17	7.30	7.30	7,30	7.30	7.30	7.20
이 비난 A 전 프 프 A	⊥/ 17	7.20	7.00	7.00	7.00	7.20	7.30
етел Бтел	10	7.30	7,30	7.30			
다니다.V EDT EDX7	10	7.40	7.30	7.30	7.30	7.30	7.30
СЦСУ БТРИ	10	7.30	7.30	7.30	7.30	7.30	7.30
ETEV BIEV	10	7.30	7.20	7.20	7.20	7.30	7.30
вцву втру	10	7.30	7,30	7.30			
러마다 A 프로프A	19	7,40	7.30	7.30	7,30	7.30	7.30
8118V 87.877	19	7.30	7.30	7.30	7.30	7.30	7.30
	19	7.30	7.30	7.30	7.30	7.30	7,30
ELEV DI DI	19	7.30	7.30	7.30			
ELEV BIEV	20	7.40	7.30	7.30	7.30	7.30	7.30
ETEA ETEA	20	7.30	7.30	7.30	7.30	7.30	7.30
ETEA	20	7.30	7.30	7.30	7.30	7.30	7.30
ETEA	20	7.30	7.30	7.30			
ELEV	21	7.40	7.30	7.30	7.30	7.30	7.30
ELEV	21	7.30	7.30	7.30	7,30	7.30	7.30
ELEV	21	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	21	7.30	7.30	7.30			· · · · · ·
HILL	1	6.10	6,50	6.50	6.40	6.40	6.50
HILL	1	6.70	6.70	6.70	6.70	6.70	6.70
HILL	1	6.70	6.70	6.70	6.70	6.70	6.90
HILL	1	7.00	7.00	7.00			4 T 12 Y
HILL	2	6.70	6.70	6.60	6,60	6.60	6.70

HILL	2	6.70	6.70	6.70	6.70	6.70	6.70
HILL	2	6.70	6.70	6.70	6.70	6.80	7.00
HILL	2	7.00	7.00	7.00			
HLLL	3	7.30	7.00	6.80	6.70	6.70	6.70
HILL HTTT	3	6.70	6.70	6.70	6.70	6.70	6.70
НТТТ ПТТТТ	3	6.70	6.70	6.80	6.90	7.00	7.00
디그그그 디그고고	3	7.00	7.00	7.00			
ицьюці ИТТ.Т.	4	7.60	7.20	6.90	6.80	6.70	6.70
	4	6.70	6.70	6.70	6.70	6.70	6.70
HTLL		7 00	6.80	7.00	7.00	7.00	7.00
HTLL	5	7.00	7.00	7.00			
HILL	5	6.70	6 70	7.10	7.00	6.90	6.70
HILL	5	7.00	7 00	7 00	6.70	6.70	6.70
HILL	5	7.00	7.00	7.00	7.00	7.00	7.00
HILL	6	7.60	7.40	7.30	7 10	7 00	6 00
HILL	6	6.70	6.70	6.70	6 70	6.70	6.80
HILL	6	7.00	7.00	7.00	7.00	7 00	7.00
HILL	6	7.00	7.00	7.00		,.00	7.00
HILL	7	7.60	7.40	7.30	7.10	7.00	7 00
HILL	7	6.90	6.90	6.90	6,90	6.90	7.00
HILL	7	7.00	7.00	7,00	7.00	7.00	7.00
HILL	7	7.00	7.00	7.10			
HILL	8	7.60	7.40	7.30	7.20	7.10	7.00
нтгт	8	7.00	7.00	7.00	7,00	7.00	7.00
┠┨⊥⊥ม⊥ı титтт	8	7.00	7.00	7.00	7,00	7.00	7.00
ᄪᇺᆈᆈ	8	7.00	7.10	7.20			
ուերը ուլ	9	7.60	7.40	7.30	7.30	7.10	7.00
пттт пттт	9	7,00	7.00	7.00	7.00	7.00	7.00
нтт.т.	9	7.00	7.00	7.00	7.00	7.00	7.00
HTLL	10	7.00	7.20	7.30			
HILL	10	7.00	7,40	7.30	7.30	7.20	7.00
HILL	10	7.00	7,00	7.00	7.00	7.00	7.00
HILL	10	7.00	7.20	7 30	7.00	7.00	7.00
HILL	11	7,60	7.40	7.30	7 30	7 20	7 00
HILL	11	7.00	7.00	7.00	7,30	7.30	7.20
HILL	11	7.00	7.00	7.00	7.00	7.00	7.00
HILL	11	7.00	7.20	7.30	,.00	7.00	7.00
HILL	12	7.40	7,30	7.30	7.30	7 30	7 20
HILL	12	7.00	7,00	7.00	7.00	7.00	7.20
HILL	12	7.00	7.00	7.00	7.00	7.00	7.00
HILL	12	7,10	7.30	7.30			1.00
HILL	13	7.40	7.30	7.30	7.30	7.30	7.20
HILL	13	7.20	7.10	7.00	7.00	7.00	7.00
HILL	13	7.00	7.00	7.00	7.00	7.00	7.00
HILL	13	7.20	7.30	7.30			
HILL	14	7.40	7.30	7.30	7.30	7.30	7.30
HTTT	14	7.30	7.20	7.10	7.00	7.00	7.00
ГІ⊥ЫЦ ПТТТТ	14	7.00	7.00	7.00	7.00	7.00	7.10
նттт ն	14 15	7.20	7.30	7.30			
гідді. Цітіт.т	10 15	7.40	7.30	7.30	7.30	7.30	7.30
нттл. НТТ.Т.	15 15	7.30	7.30	7.20	7.10	7.00	7.00
HTLL	15 15	7.00	7.00	7.00	7.00	7.00	7.20
	16	7.30	1.30	7.30			
	16	7.40	1.3U 7 20	7.30	7.30	7.30	7.30
HILL	16	7.00	7.00	7.30	7.30	7.30	7.00
n or and and place	- U	1.00	7.00	7.00	7.00	7,00	7.20

		HILL HILL HILL	16 17 17	7.30 7.40 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30	7.30	7.30
		HILL HILL HITT	17 17 18	7.20	7.00 7.30	7.00	7.00	7.20	7.20
		HILL HILL HILL	18 18 18	7.40 7.30 7.30	7.30 7.30 7.20	7.30 7.30 7.20	7.30 7.30 7.20	7.30 7.30 7.30	7.30 7.30 7.30
		HILL HILL HILL	19 19 19 19	7.30 7.40 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30	7.30 7.30	7.30 7.30
		HILL HILL	19 20	7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30	7.30	7.30
		HILL HILL HILL	20 20 20	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
		HILL HILL HILL	21 21 21	7.40 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30	7.30 7.30	7.30 7.30
GRIDCART GRIDCART	UCART2 UCART3	HILL END STA	21	7.30	7.30	7.30	7.30	7.30	7.30
		XYINC	632964	.92 21	42.09 4263:	171.39 21	17 98		
		ELEV	1	6.10	6.10	6.10	6.10	6 10	6 10
		ELEV	1	6.10	6,10	6.10	6.10	6.10	6 10
		広山島A	1	6.40	6.40	6.40	6.40	6.60	6,70
		ELEV	1 2	6.70 6.10	6.70	6.70			
		ELEV	2	6 10	6.10	6.10	6.10	6.10	6.10
		ELEV	2	6.40	6.10	6.10	6.10	6.10	6.20
		ELEV	2	6.70	6 70	6.40	6.40	6.70	6.70
		ELEV	3	6.10	6.10	6 10	6 10	C 10	• • •
		ELEV	3	6,10	6.10	6.10	6 10	6.1U 6.10	6.10
		ELEV	3	6.40	6.40	6.40	6.40	6.70	6.20
		ELEV	3	6.70	6.70	6.70	0110	0.70	6.70
		ELEV	4	6.10	6.10	6.10	6.10	6.10	6 10
		ELEV ET EX7	4	6.10	6.10	6.10	6.10	6.10	6.20
		ក្រុក្ស គេក្រូហ	4	6,40	6.40	6.40	6,40	6.70	6.70
		ELEV	4 5	6.70 6.10	6.70	6.70			·
		ELEV	5	6 10	6.10 6.10	6.10	6.10	6.10	6.10
		ELEV	5	6.40	6,10	6,10	6.10	6.10	6.30
		ELEV	5	6.70	6 70	6.40	6.60	6.70	6.70
		ELEV	6	6.10	6.10	6 10	6 10	C 10	
		ELEV	6	6.10	6.10	6.10	6 10	6.10	6.10
		ELEV	6	6.40	6.40	6.40	6 70	6.20	6.40
		ELEV	6	6.70	6.70	6.70	0.70	0.70	6.70
		ELEV	7	6.10	6.10	6.10	6.10	6.10	6 10
		ELEV	7	6.10	6.10	6.10	6,10	6.30	6 40
		ELEV Birnin	7	6,40	6.40	6.40	6.70	6.70	6.70
		сцсv Elev	/ 0	6.70	6.70	6,70			
		ELEV ELEV	D Q	6.10 6.10	6.10	6,10	6.10	6.10	6.10
		ELEV	8	0.1U 6 10	6.LU	6.10	6.20	6.40	6.40
		ELEV	8	6 70	6.40	6.50	6.70	6.70	6.70
		ELEV	9	6.10	0,0U 6 10	6.80 6.10	C 1 A	_	
		ELEV	9	6.10	6.10	6.10	6.30	6.10 6.40	6.10 6.40

ELEV	. 9.	6.40	6.40	6.60	6 70	C 70	
ELEV	9	6.70	6.90	7 00	0.70	6.70	6.70
ELEV	10	6.10	6.10	6 10	6 10	C 10	
ELEV	10	6.10	6.10	6.10	6.40	6.10	6.10
ELEV	10	6.40	6.50	6.70	6 70	6,40	6.40
ELEV	10	6.80	7.00	7.00	0.70	6.70	6.70
ELEV	11	6.10	6.10	6.10	6 10	6 10	~ ~ ~ ~
ELEV	11	6,10	6.10	6.20	6.40	6.10	6.10
ELEV	11	6.40	6.50	6.70	6 70	6.40	6.40
ELEV	11	6.80	7.00	7.00	0.70	6.70	6.70
ELEV	12	6.10	6.10	6.10	6 10	E 10	
ELEV	12	6.10	6.10	6.40	6 40	6.10	6.10
ELEV	12	6.40	6.70	6.70	6.70	6.40	6.40
ELEV	12	6.80	7.00	7.00	0.70	0.70	6.70
ELEV	13	6.10	6.10	6.10	6 10	6 10	C 10
ELEV	13	6.10	6.20	6.40	6.40	6.40	6.10
ELEV	13	6.50	6.70	6.70	6.70	6 70	6.40
ELEV	13	6.80	7.00	7.00	0.70	0.70	0,70
ELEV	14	6.10	6.10	6.10	6.10	6 10	C 10
ELEV	14	6.10	6.40	6.40	6.40	6 40	6.10
ELEV	14	6.70	6.70	6.70	6.70	6 70	6.40
ELEV	14	6.80	7.00	7.00	••••	0.70	6.70
ELEV	15	6,10	6.10	6.10	6.10	6 10	6 10
ELEV	15	6.20	6.40	6.40	6.40	6.40	6.10
ELEV	15	6.70	6.70	6.70	6.70	6 70	6.60
ELEV	15	6.90	7.00	7.00		0.70	0.70
ELEV	16	6.10	6.10	6.10	6.10	6 10	6 20
ELEV	16	6.30	6.40	6.40	6.40	6 50	6.20
ELEV	16	6.70	6.70	6.70	6.70	6 70	6.70
ELEV	16	7.00	7.00	7.00	0.70	0.70	6.70
$E T E \Lambda$	17	6.10	6,10	6.10	6 10	6 10	C 20
ELEV	17	6.40	6.40	6.40	6.40	6 60	6.30
ELEV	17	6.70	6.70	6.70	6 70	6.70	0.70
ELEV	17	7.00	7.00	7.00	0,10	0.70	6.70
ELEV	18	6.10	6.10	6.10	6 10	6 20	C 10
ELEV	18	6.40	6.40	6.40	6 50	6 70	6.40
ELEV	18	6.70	6.70	6.70	6 70	6.70	6.70
ELEV	18	7.00	7.00	7.00	0.10	0.70	6.80
ELEV	19	6.10	6.10	6.10	6 10	6 30	C 40
ELEV	19	6.40	6.40	6.40	6.60	6.70	6.40
ELEV	19	6.70	6,70	6.70	6.70	6 70	0.70
ELEV	19	7.00	7.00	7.00		0.70	7.00
ELEV	20	6,10	6.10	6.10	6.30	6.40	6 40
ELEV	20	6.40	6,40	6.40	6.70	6 70	6.70
ELEV	20	6.70	6.70	6.70	6.70	6 80	0.70
ELEV	20	7.00	7.00	7,00	- · · · ·	0.00	7.00
ELEV	21	6.10	6.10	6.10	6 40	6 40	C 10
ELEV	21	6.40	6.40	6.50	6 70	0.40 6 70	6.40
ELEV	21	6,70	6.70	6.70	6 70	6.90	6.70
ELEV	21	7.00	7.00	7.00	0170	0.90	7.00
HILL	1	6.10	6.10	6.10	6 10	6 10	C 10
HILL	1	6.10	6.10	6.10	6 10	0.1V 6 10	0.10 C 10
HILL	1	6.40	6.40	6.40	6 40	0,10	0.IU
HILL	1	6.70	6.70	6,70	0.40	0,00	6.70
HILL	2	6.10	6.10	6.10	6 10	6 10	C 10
HILL	2	6.10	6.10	6.10	6 10	6 10	6.IU 6.OC
HILL	2	6.40	6.40	6.40	6 40	0.1U 6 70	6.20
HILL	2	6.70	6.70	6.70	V+ 4 V	0.70	6.70

HILL	3	6.10	6.10	6.10	6.10	6.10	6.10
HILL	3	6.10	6.10	6.10	6.10	6.10	6.20
HILL	3	6.40	6.40	6.40	6.40	6.70	6.70
HILL	3	6.70	6.70	6.70			
HILL	4	6.10	6.10	6.10	6.10	6.10	6.10
HILL	4	6.10	6.10	6.10	6.10	6.10	6.20
HILL	4	6.40	6.40	6.40	6.40	6.70	6.70
HILL	4	6.70	6.70	6.70			
нтгг	5	6.10	6.10	6.10	6.10	6.10	6.10
НЦЦЦ ИТТ Х	5	6.10	6.10	6,10	6.10	6.10	6.30
пцыы Пттт	С С	6.40	6.40	6.40	6.60	6.70	6.70
ыттт птттт	5	6.70	6.70	6.70			
налы НТТ.т.	6	6.1U 6.10	6,10	6.10	6,10	6.10	6.10
нтт.т.	6	6.10	6.10	6.10	6.10	6.20	6.40
HTLT.	6 6	6 70	6.40	6.40	6.70	6.70	6.70
HTT.T.	7	6 10	6.10	6.70	C 10	C 1 0	
HTT.T.	7	6 10	6 10	6.10	6.10	6.10	6.10
HTLL	7	6 40	6.10	6.10	6.10	6.30	6.40
HTTT	7	6 70	6 70	6.40	6.70	6.70	6.70
HILL	8	6 10	6.10	6.10	C 10	C 10	5 10
HILL	8	6.10	6 10	6 10	6.20	6.10 6.40	6.10
HILL	8	6.40	6.40	6 50	6.20	. 6.40	6.40
HILL	8	6.70	6.80	6.80	0.70	0.70	6.70
HILL	9	6.10	6.10	6.10	6 10	6 10	6 10
HILL	9	6.10	6.10	6.10	6 30	6 40	6.10
HILL	9	6.40	6.40	6,60	6 70	6 70	6.40
HILL	9	6.70	6.90	7.00	0.70	0.70	0.70
HILL	10	6.10	6.10	6.10	6.10	6.10	6 10
HILL	10	6,10	6.10	6.10	6.40	6.40	6 40
HILL	10	6.40	6.50	6,70	6.70	6.70	6 70
HILL	10	6,80	7.00	7.00			0.70
HILL	11	6.10	6.10	6.10	6.10	6.10	6 10
HILL	11	6.10	6.10	6.20	6.40	6.40	6.40
HILL	11	6.40	6.50	6,70	6.70	6.70	6.70
HILL	11	6.80	7.00	7.00			
HILL	12	6.10	6.10	6.10	6.10	6.10	6.10
HILL	12	6,10	6.10	6.40	6.40	6.40	6.40
HILL	12	6.40	6,70	6.70	6.70	6.70	6.70
HILL	12	6.80	7.00	7.00			
HILL	13	6.10	6.10	6.10	6.10	6.10	6.10
HILL	13	6.10	6,20	6.40	6.40	6.40	6.40
HILL	13	6.50	6.70	6.70	6.70	6,70	6.70
HILL	13	6.80	7.00	7.00			
HILL	14	6.10	6.10	6,10	6.10	6.10	6.10
HILL	14	6.10	6,40	6.40	6.40	6.40	6.40
HILL	14	6.70	6.70	6.70	6.70	6.70	6.70
HILL	14	6.80	7.00	7.00			
НІЦЦ ПІТТТ	15	6.10	6.10	6.10	6.10	6.10	6.10
HLLL TTTTT	, 15 15	6.20	6,40	6.40	6.40	6.40	6.60
HLLL HTTTT	15	6.70	6.70	6,70	6.70	6.70	6.70
http: Dese	15	6.90	7.00	7,00			
ուերը ուսեւ	10 10	6.10	6.10	6.10	6.10	6.10	6.20
ներեր Աեւեւ	10 10	6.30	6.40	6.40	6.40	6.50	6.70
ուրո ԱՄԱՆՆ	10 10	b./U	6.70	6.70	6.70	6.70	6.70
հենև ԱԾԾԾ	10 17	7.00	7.00	7.00	_		
ուհեկ սուո	⊥/ 1ワ	6.10 6.10	6.10	6.10	6,10	6.10	6.30
, , , , , , , , , , , , , , , , , , ,	Т (0,4U	6,4U	6.40	6.40	6.60	6.70

		HILL	17	6.70	6.70	6.70	6.70	6.70	6.70
		цттт цттт	10	7.00	7.00	7.00	.		
		цттт 11.1. ЦЦ	10	6.10	6.10	6.10	6,10	6.20	6.40
		HTT.T.	1.9	6,40	6.40	6.40	6.50	6.70	6.70
		HTT.T.	18	7 00	0.70	6.70	6.70	6.70	6.80
		HTT.T.	10	6 10	7.00	7.00	C 10		
		НТТ.Т.	10	6 40	6.10	6.10	6.10	6.30	6.40
		HTT.T.	10	6 70	6.4U	6.40	6.60	6.70	6.70
		HTT.T.	19	7 00	0.70	6.70	6.70	6.70	7.00
		HTTT	20	6 10	7.00 6.10	7.00	C 00	<i></i>	
		HTT.T.	20	6 40	6.10	6,10	6.30	6.40	6.40
		HTT.T.	20	6 70	6.40	6.40	6.70	6.70	6.70
		нтт.т.	20	7 00	7.00	0.70	6.70	6.80	7,00
		HTLL	21	6 10	7.00	7.00	6 10		
			21	6 40	6.10	6.10	6.40	6.40	6.40
		HTT.T.	21	6 70	6,40	6.50	6,70	6.70	6.70
		HTT.T.	21		7.00	0.70	6.70	6.90	7.00
GRIDCART	UCART3	END	4 , 1	1.00	7.00	7.00			
GRIDCART	UCART4	STA							
		XYINC	632647	.92 21	12.92 42629	992.92 21	27.97		
		ELEV	1	5.50	5.50	5.50	5.50	5.50	5 50
		ELEV	1	5.50	5.50	5.50	5.50	5.50	5.50
		ELEV	1	5.50	5.60	5.70	5.80	5.80	5.80
		ELEV	1	5.80	5.80	5,80	0.00	0.00	5.00
		ELEV	2	5.50	5.50	5.50	5.50	5 50	5 50
		ELEV	2	5.50	5.50	5.50	5 50	5 50	5.50
		ELEV	2	5.70	5,80	5.80	5 80	5.80	5.50
		ELEV	2	5.80	5,80	5.80	0.00	0.00	0.00
		ELEV	3	5.50	5.50	5 50	5 50	5 50	
		ELEV	3	5.50	5.50	5 50	5.50	5.50	5.50
	•	ELEV	3	5.70	5.80	5 80	5.80	5.50	5.60
		ELEV	3	5.80	5.80	5 80	0.00	5.00	5.80
		ELEV	4	5.50	5 50	5 50	5 50	5 50	
		ELEV	4	5.50	5.50	5.50	5.50	5,50	5,50
		ELEV	4	5.80	5 80	5.80	5,00	5.70	5.80
		ELEV	4	5.80	5 80	5.80	0.00	5.00	5.80
		ELEV	5	5.50	5 50	5 50	5 50	E EO	5 50
		ELEV	5	5 50	5,50	5.50	J.JU E 60	5.50	5.50
		RLEV	5	5 80	5.00	5.50	5,60	5.70	5.80
		ELEV	5	5 80	5.00	5,00	5.80	5.80	5.80
		ET.EX	6	5.50	5.50	5,8V 5 60			-
		ELEV	6	5.50	5.50	5.50	5,50	5.50	5.50
		ELEV	6	5.00	5.00	5,70	5,80	5.80	5.80
		ELEV	6	5.00	5.00	5.8U	5.80	5.80	5.80
		ELEXZ	7	5.60	5,80	5.80	F F O		
		ELEV ELEV	י ר	5,50	5,50	5.50	5.50	5,50	5.50
		עבעבוע זיים דים	ן ד	5.50	5.60	5.80	5,80	5.80	5.80
		이 미리 데 데 데 이 데 데 데 데 데 데 데 데 데 데 데 데 데 데 데 데	7	5,80	5.80	5.80	5.80	5.80	5.80
		ELEV ETEV	0	5,8U 5,8U	5,80	5.80	~ ~ ~		
		ЦЦС: V 1971 1977	0	5,50	5,50	5.50	5.50	5.50	5.60
		티니다V 티디 코고	Ö	5./0	5.80	5.80	5.80	5.80	5.80
		БЦЁ∨ вт вт	ъ С	5.80	5.80	5.80	5.80	5.80	5.80
		вьву втег	Ф	5.80	5.80	5.80			
		ыцы ыл тыха	9	5.50	5.50	5.50	5.50	5.50	5,70
		ыцык∨	9	5.80	5,80	5.80	5.80	5.80	5.80
		ыты∧	У	5.80	5.80	5.80	5.80	5.80	5.80
		LLEV	9	5.80	5.80	5.80			
		БТЕΛ	ΤÜ	5.50	5.50	5.50	5.50	5.50	5.70

ELEV	10	5.80	5.80	5.80	5.80	5 80	E 0.0
ELEV	10	5.80	5.80	5.80	5.80	5 80	5.8U 5.00
ELEV	10	5.80	5.80	5,80		0.00	5.60
ELEV	11	5.50	5.50	5.50	5.60	5,70	5 70
ELEV	11	5.80	5.80	5.80	5.80	5.80	5.80
ELEV	11	5.80	5.80	5.80	5.80	5.80	5.80
ELEV DT DV	11.	5.80	5.90	6.00			0.00
티니티V 티디 디V	12	5.50	5.50	5.60	5.70	5.80	5.80
ELEV ET EN7	10	5.80	5.80	5.80	5.80	5.80	5.80
ELLE V FIFT	10	5.80	5.80	5.80	5.80	5.80	5.80
ELEV	12 12	5.90	6.00	6,10			
ELEV	13	5.50	5.50	5,60	5.70	5.80	5.80
ELEV	13	5.00	5.80	5.80	5.80	5.80	5.80
ELEV	13	5.80	5.80	5.80	5.80	5.80	5.90
ELEV	14	5 50	6.UU 5.CO	6,10			
ELEV	14	5 80	5.00	5.70	5.70	5.80	5.80
ELEV	14	5 80	5.80	5.80	5.80	5.80	5.80
ELEV	14	6.10	5.00 6 10	5.8U 6 10	5.80	5.90	6.00
ELEV	15	5.60	5 80	5 20	E 00	5 00	
ELEV	15	5.80	5 80	5.80	5.80	5.80	5.80
ELEV	15	5.80	5.80	5.80	5.80	5.80	5.80
ELEV	15	6.10	6.10	5.00 6.10	5.80	5.90	6.00
ELEV	16	5.70	5.80	5.80	5 80	5 00	F 00
ELEV	16	5.80	5.80	5.80	5 80	5.80	5.80
ELEV	16	5.80	5.80	5.80	5 90	5.00	5.80
ELEV	16	6.10	6.10	6.10	0.00	0.90	6.00
ELEV	17	5.80	5.80	5.80	5.80	5 80	5 00
ELEV	17	5.80	5.80	5.80	5,80	5.80	5.80
ELEV	17	5.80	5.90	6.00	6.10	6.10	6 10
ELEV	17	6,10	6.10	6.10		0.10	0.10
ELEV	18	5.80	5,80	5.80	5.80	5.80	5 80
ELEV	18	5.80	5,80	5.80	5.80	5,80	5 90
ELEV	18	6.00	6.10	6.10	6.10	6.10	6 10
ELEV	18	6.10	6.10	6.10			0.10
ELEV	19	5,80	5.80	5.80	5.80	5.80	5.80
ELEV	19	5,80	5,80	5,80	5.90	6.00	6.10
ELEV	19	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	19	6.10	6.10	. 6.10			0.10
ELEV	20	5.80	5,80	5.80	5.80	5.80	5.80
ELEV	20	5.80	5.80	5.80	5.90	6.00	6.10
ELEV	20	6.10	6.10	6,10	6.10	6.10	6.10
BLEV 편지 편지	20	6.10	6.10	6.10			
다니다V 다니다V	41	5.80	5.80	5.80	5.80	5.80	5.80
сцеv гтру	∠⊥ 01	5.80	5.80	5.80	5.90	6.00	6.10
עמעניע סדריס	21 01	6.10	6.10	6.10	6.10	6.10	6.10
ыцыу ыттт	۲ ۲ ۲	6.IU 5.C	6.10	6.10			
пттт пттт	1	5.50	5.50	5.50	5.50	5.50	5.50
ուրուսու	⊥. 1	5.50	5.50	5.50	5.50	5.50	5.50
	1 1	5.50	5.60	5.70	5.80	5.80	5.80
наци НТТ.Т.	2	5.60	5.80	5.80			
чттлт.	2	5.50 5.50	5,50	5.50	5.50	5.50	5,50
HTLL	2	J.50 5 70	5.50	5.50	5.50	5.50	5.50
HTT.T.	2	5 00	5.8U 5.00	5,80	5.80	5.80	5.80
нтт.т.	4	5.60	5.8U 5.50	5.80	F -	_	
HTT.T.	с С	J.JU 5 60	9,5V 5 50	5.50	5.50	5.50	5.50
**************************************	3	5 70	0.9V E 00	5.50	5.50	5.50	5.60
البوك المالة. مادر تو ت	2	5.70	υ . αŲ	5.80	5.80	5.80	5.80

HILL	3	5.80	5.80	5.80			
HILL	4	5.50	5.50	5.50	5.50	5,50	5 50
HILL	4	5.50	5.50	5,50	5.60	5.70	5 80
HILL	4	5.80	5.80	5.80	5.80	5.80	5.80
HILL	4.	5.80	5.80	5.80			0.00
HILL	5	5.50	5.50	5.50	5,50	5.50	5 50
HILL	5	5.50	5.50	5.50	5.60	5.70	5.80
HILL	5	5.80	5.80	5.80	5.80	5.80	5.80
HILL	5	5.80	5.80	5,80		0.00	5,00
HILL	6	5.50	5.50	5.50	5.50	5.50	5 50
HILL	6	5.50	5.60	5.70	5.80	5.80	5.80
HILL	6	5.80	5.80	5.80	5.80	5.80	5 80
HILL	6	5.80	5.80	5.80		0100	0.00
HILL	7	5.50	5.50	5.50	5.50	5 50	5 50
HILL	7	5.50	5.60	5.80	5.80	5 80	5 90
HILL	7	5.80	5.80	5.80	5.80	5 80	5.00
HILL	7	5.80	5.80	5.80	0.00	0.00	5.00
HILL	8	5.50	5,50	5.50	5 50	5 50	5 60
HILL	8	5.70	5.80	5.80	5 80	5.90	5.60
HILL	8	5.80	5.80	5.80	5,80	5 00	5,80
HILL	8	5,80	5,80	5 80	0,00	9.00	5,80
HILL	9	5,50	5.50	5 50	5 50	E EO	
HILL	9	5.80	5.80	5.90	5.00	5.50	5.70
HILL	9	5.80	5 80	5.80	5.00	5.80	5.80
HILL	9	5 80	5 80	5.80	5.00	5.80	5.80
HITT	10	5 50	5.50	5.60	E EO		
HTLL	10	5.80	5.90	5.50	5.50	5.50	5.70
HTTT	10	5.80	5.00	5.80	5.80	5.80	5.80
HTT.T.	10	5.00	5.00	5.80	5.80	5,80	5.80
нада ИТТ.Т.	11	5 50	5.80	5.80		_	
нацы. Натал		5.00	5.50	5,50	5.60	5.70	5.70
тттт	1 1 1 1	5,80	5.80	5.80	5.80	5.80	5.80
TITTIT TITTI	⊥.↓ 11	5.80	5.80	5.80	5,80	5.80	5,80
ытті Татті	10	5.80	5.90	6.00			
пттт	10	5.50	5.50	5,60	5.70	5.80	5.80
піціці цітт	12	5.80	5.80	5.80	5.80	5.80	5.80
HILL	12	5,80	5.80	5.80	5.80	5.80	5.80
HILL	12	5.90	6.00	6.10			
HILL	13	5.50	5.50	5,60	5.70	5.80	5.80
HILL	13	5,80	5.80	5.80	5.80	5.80	5.80
HILL	13	5,80	5.80	5.80	5,80	5.80	5.90
HILL	13	6.00	6.00	6.10			
HILL	14	5.50	5.60	5.70	5,70	5.80	5.80
HILL	14	5,80	5.80	5.80	5.80	5.80	5.80
HILL	14	5.80	5,80	5.80	5.80	5.90	6.00
HILL	14	6.10	6.10	6.10			
HILL	15	5.60	5,80	5.80	5.80	5.80	5 80
HILL	15	5.80	5.80	5.80	5.80	5.80	5 80
HILL	15	5.80	5.80	5.80	5.80	5.90	5,00 6,00
HILL	15	6.10	6.10	6.10	0.00	0.90	0.00
HILL	16	5.70	5.80	5.80	5 80	5 80	5 00
HILL	16	5,80	5.80	5.80	5.80	5.80	5.80
HILL	16	5.80	5.80	5 80	5 90	5.00	5.80
HILL	16	6.10	6.10	6 10	5.90	0.90	6.00
HILL	17	5.80	5 80	5 20	5 00	F 00	F 50
НТЦТ	17	5 80	5.00	J.0U 5.00	3,8U E 00	5.80	5,80
HTLL.	17	5 80	J.0U 5 00	5,80	5.80	5,80	5.80
HTTT	17	6 10	0.90 6 10	6.00	b.10	6.10	6.10
наны ИТТТ	10 10	0.TO	6.TA	6.1U		_	
∎ ⊨ ┿ ┿ ┙┨┛	τo	5.80	5.80	5.80	5.80	5.80	5.80

		HILL HILL HILL	18 18 18	5.80 6.00 6.10	5.80 6.10 6.10	5.80 6.10 6.10	5.80 6.10	5.80 6.10	5.90 6.10
		HILL	19	5.80	5.80	5.80	5.80	5.80	5.80
		HILL	19	5.80	5.80	5.80	5.90	6.00	6.10
		HILL	19	6.10	6.10	6.10	6.10	6.10	6.10
		HILL	19	6.10	6.10	6.10			· · - •
		HILL	20	5.80	5.80	5.80	5.80	5.80	5.80
		HILL	20	5.80	5.80	5.80	5.90	6.00	6.10
		нттт	20	6.10	6.10	6.10	6.10	6.10	6.10
		ᄩᅸᅸᅸ	20	6.10	6.10	6.10			
		대소 쇼쇼 다 ㅜ ㅜ ㅜ	21	5.80	5.80	5.80	5.80	5.80	5.80
		піцц итт т	21 21	5,80	5.80	5.80	5.90	6.00	6.10
		птцц цтттт	21 21	6.10	6.10	6.10	6.10	6.10	6.10
GRIDCART	ICART4	FND	2 I	6.10	6.10	6.10			
GRIDCART	UCART5	STA							
	00.11(10	XYINC	63280	35 66 21	A 26 4262	076 02 21	05 44		
		ELEV	1	5 80	5 80	5 0.93 21	40.44	- 00	
		ELEV	1	5 80	5,00	5.00	5.80	5.80	5.80
		ELEV	1	5 80	5.00	5.80	5.80	5.80	5.80
		ELEV	1	5 90	5 90	5.80	5.80	5.80	5.80
		ELEV	2	5 80	5.90	5.90	E OO	F 00	
		ELEV	2	5 80	5.80	5.60	5,80	5.80	5.80
		ELEV	2	5 80	5.00	5.00	5,80	5.80	5,80
		ELEV	2	5.00	5.80	5.60	5.80	5.80	5.80
		ELEV	2	5 80	5.90	5.00	5 00	F 0.0	
		ELEV	с З	5 80	5.00	5.60	5,80	5.80	5.80
		ELEV	3	5 80	5.80	5.80	5,80	5.80	5.80
		ELEV	3	5,00	5 90	5.00	5.80	5.80	5.80
		ELEV	4	5 80	5.90	5.00	E 00	F 0.0	
		ELEV	4	5,80	5 80	5.00	5.00	5,80	5.80
		ELEV	4	5.80	5 80	5.00	5.00	5.80	5.80
		ELEV	4	5.90	5,90	6,00	5.00	5.80	5.80
		ELEV	5	5.80	5.80	5 80	5 80	5 90	F 0.0
		ELEV	5	5,80	5.80	5 80	5.80	5.00	5.80
		ELEV	5	5.80	5.80	5 80	5 80	5 80	5.00
		ELEV	5	5.90	5.90	6.00	9.00	5.00	5.90
		ELEV	6	5.80	5,80	5.80	5 80	5 80	F 00
		ELEV	6	5.80	5.80	5.80	5.00	5.80	5.80
		ELEV	6	5.90	6.00	6.00	6.00	5.00 6 10	5.90
		ELEV	6	6.10	6.10	610	0.00	0.10	0.10
		ELEV	7	5.80	5,80	5.80	5 80	5 80	5 00
		ELEV	7	5.80	5,80	5.80	5 80	5 80	5.00
		ELEV	7	5.90	6.00	6.00	6 10	5.00	5.90
		ELEV	7	6.10	6.10	6.10	0.10	0.10	0.10
		ELEV	8	5.80	5,80	5.80	5 80	5 80	5 00
		ELEV	8	5.80	5,80	5.80	5 80	5.80	5.00
		ELEV	8	5.90	6.00	6.00	6.10	6 1 A	5.90
		ELEV	8	6.10	6.10	6.10	0.10	0.10	0.10
		ELEV	9	5.80	5.80	5.80	5.80	5 80	5 00
		ELEV	9	5,90	5.90	5.90	5.90	6 00	5,90
		ELEV	9	6.00	6.00	6.10	6.10	6 10	6 10
		ELEV	9	6.10	6,10	6.10	·	0+±0	0.10
		ELEV	10	5.80	5.80	5.80	5.80	5 90	5 00
		ELEV	10	6.00	6.00	6.10	6.10	6 10	6 10
		ELEV	10	6.10	6.10	6.10	6.10	6.10	0.10 6 10
		ELEV	10	6.10	6.10	6.10		~ • .	0.10

ELEV	11	5,80	5.80	5.80	5.80	5,90	5 90
ELEV	11	6.00	6.00	6.10	6.10	6.10	6 10
ELEV	11	6,10	6.10	6.10	6.10	6.10	6.10
ELEV	11	6.10	6.10	6.10			0.10
ELEV	12	5.80	5.80	5.80	5.90	5.90	5.90
ELEV	12	6.00	6.00	6.10	6.10	6.10	6.10
ELEV	12	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	12	6.10	6.10	6.10			
ELEV	13	6.00	6.00	6.10	6.10	6.10	6.10
ELEV	13	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	13	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	13	6.10	6.10	6.10			
ELEV	14	6.00	6.10	6.10	6.10	6.10	6.10
ELEV	14	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	14	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	14	6.10	6.10	6.10			
ELEV	15	6,10	6.10	6.10	6.10	6.10	6.10
ELEV	15	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	15	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	15	6.10	6.10	6.10			
ELEV	16	6,10	6.10	6.10	6.10	6.10	6.10
ELEV	16	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	16	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	16	6,10	6.10	6.10			
ELEV	17	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	17	6.10	6.10	6.10	6.10	6.10	6.10
ELEV	17	6.10	6,10	6.10	6.10	6.10	6.10
ELEV	17	6.10	6.10	6,10			¥ + 4
ELEV	18	6.10	6.10	6.10	6,10	6.10	6.10
ELEV	18	6.10	6.10	6.10	6.10	6.10	6 10
ELEV	18	6.10	6.10	6.10	6.10	6.10	6 10
ELEV	18	6,10	6.10	6.10		0.10	0.10
ELEV	19	6.10	6.10	6.10	6,10	6 10	6 10
ELEV	19	6.10	6,10	6.10	6.10	6.10	6 10
ELEV	19	6.10	6.10	6.10	6.10	6.10	6 10
ELEV	19	6.10	6.10	6.10	••-•	0.40	0.10
ELEV	20	6.10	6.10	6.10	6.10	6 10	6 10
ELEV	20	6,10	6.10	6.10	6.10	6 10	6 10
ELEV	20	6.10	6.10	6.10	6.10	6 1 0	6 10
ELEV	20	6.10	6.10	6.10	0140	0.10	0.10
ELEV	21	6.10	6.10	6.10	6.10	6 10	6 10
ELEV	21	6.10	6.10	6.10	6.10	6 10	6 10
ELEV	21	6.10	6.10	6.10	6.10	6 10	6 10
ELEV	21	6.10	6.10	6.10	0110	0.70	0.10
HILL	1	5.80	5.80	5.80	5 80	5 80	5 00
HILL	1	5.80	5.80	5.80	5 80	5.00	5.00
HILL	1	5.80	5.80	5.80	5,00	5.00	5.80
HILL	1	5,90	5 90	5 90	5.00	5.00	5.80
HILL	2	5.80	5.80	5 80	5 00	E 0.0	
HILL	2	5 80	5,80	5 80	5.00	5.80	5.80
HILL	2	5 80	5 80	5.00	5.00	5.80	5.80
HTLL	2	5 90	5 90	5.00	5,80	5.80	5.80
HIT.T.	ן ר	5 80	5 80	5 00		F OC	
HTLL	े २	5 80	5,00	5.00	5,8V E 00	5.80	5.80
HTT.I.	о С	5.00 5.20	5.00	5.00	5.80	5,80	5.80
ананананананананананананананананананан	с С	5 90	5 00	3.8U 6 00	5.80	5.80	5.80
HTT.T.	2	5 80	5.90	0.VU 5.00	E CO		
нтт.т.	л Л	5.00	J.0V 5 0A	5.8U 5.00	5,8U	5.80	5.80
╸ݚ╺┖╶╢╼┨ ┿┥	ч	J.0V	0.00	5.VU	5.80	5.80	5.80

HILL	4	5.80	5.80	5.80	5.80	5,80	5.80
HILL	4	5.90	5.90	6.00			0,00
HILL	5	5.80	5.80	5.80	5.80	5.80	5.80
HILL	5	5.80	5.80	5.80	5.80	.5.80	5,80
HILL	5	5.80	5.80	5.80	5.80	5.80	5.90
HILL	5	5.90	5.90	6.00			
HILL	6	5.80	5.80	5.80	5.80	5.80	5.80
НТГГ	6	5.80	5.80	5.80	5,80	5.80	5.90
нттт гіцьць	6	5.90	6.00	6.00	6.00	6.10	6.10
ուսև Աттт	ю т	6.10	6.10	6.10			
нтт.т пттт	י ר	5,80	5.80	5.80	5.80	5,80	5.80
	7	5.00	5,80	5.80	5.80	5,80	5.90
нтт.т.	י ד	5.90	6.00	6.00	6.10	6.10	6.10
HTTT	8	5 80	5.20	6.LU 5.00	5 00		_
HTTT	8	5.80	5.80	5.00	5.8U 5.00	5.80	5.80
HILL	8	5 90	5,00	5.60	5.80	5.80	5,90
HILL	8	6.10	6 10	6.00	0.10	6.10	6.10
HILL	9	5.80	5 80	5 80	5 00	E 0.0	F 00
HILL	9	5.90	5.90	5,00	5 90	5.80	5.90
HILL	9	6.00	6.00	6 10	5.90 6.10	6.00	6.00
HILL	9	6.10	6.10	6 10	0.10	0.10	6.10
HILL	10	5.80	5.80	5.80	5 80	5 90	5 00
HILL	10	6,00	6.00	6.10	5.00 6.10	5.90 6.10	5,90
HILL	10	6.10	6.10	6.10	6.10	6 10	6.10
HILL	10	6,10	6.10	6.10	0.10	0.10	0.10
HILL	11	5.80	5.80	5.80	5.80	5 90	5 90
HILL	11	6.00	6.00	6.10	6.10	6.10	6 10
HILL	11	6,10	6.10	6.10	6.10	6.10	6 10
HILL	11	6.10	6,10	6.10		0.10	0.10
HILL	12	5.80	5.80	5.80	5.90	5.90	5 90
HILL	12	6.00	6.00	6.10	6.10	6.10	6 10
HILL	12	6.10	6.10	6,10	6.10	6.10	6.10
HILL	12	6.10	6.10	6.10			. 0.10
HILL	13	6.00	6.00	6.10	6.10	6.10	6.10
HILL	13	6.10	6.10	6.10	6.10	6.10	6.10
HILL	13	6.10	6.10	6.10	6.10	6.10	6.10
HILL	13	6.10	6.10	6.10			
HILL	14	6.00	6.10	6.10	6.10	6,10	6.10
HILL	14	6,10	6.10	6.10	6.10	6.10	6.10
HILL	14	6.10	6,10	6.10	6.10	6.10	6.10
HILL	14	6.10	6.10	6.10			
HILL	15	6.10	6.10	6.10	6.10	6.10	6,10
НТЦЦ	15	6.10	6.10	6.10	6.10	6.10	6.10
HILL	15	6.10	6.10	6.10	6.10	6.10	6.10
HILL	15	6.10	6.10	6.10			
HTTT	16	6.10	6.10	6.10	6.10	6,10	6.10
HILL	16	6.10	6.10	6,10	6,10	6.10	6.10
HLLL	16	6.10	6.10	6.10	6.10	6.10	6.10
Ніці нтт	16	6.10	6.10	6.10			
пттт иттт	17	6.10	6.10	6,10	6.10	6.10	6.10
ПТТТ ПТТТТ	17	6.10	6.10	6.10	6.10	6.10	6.10
піціі Пітті	⊥ / 1 7	0.10	6.10	6.10	6,10	6.10	6.10
ուսսս Աստուս	1/ 10	0.LU	6.10	6.10			
пііі пттт	10 10	6.10	6.10	6.10	6.10	6.10	6.10
ուր հերր	18 10	6.10	6.10	6.10	6.10	6.10	6.10
ᆑᇿᇈᇈᇈ ᅚᅚᅚᅚ	10 10	6.10	6.10	6.10	6.10	6.10	6.10
ուրը	ΤÅ	6.LU	6.10	6.10			

		HILL	19	6.10	6 10	6 10	C 10		
		HILL	19	6.10	6 10	6.10	6.10	6.10	6.10
		HILL	19	6 10	6 10	6.1U	6.10	6.10	6.10
		HILL	19	6 10	6.10	6.10	6.10	6.10	6.10
		HTT.T.	20	6 10	6.10	6.10			
		нттт.	20	0.10	6.10	6.10	6.10	6.10	6.10
		11 T T T T	20	6.10	6.10	6.10	6.10	6.10	6 10
		┎╷╷╷╷╷╷ ┎┎╼╴┲	20	6.10	6.10	6.10	6.10	6.10	6 10
		ᆑᇿᇈᇈᇈ	20	6.10	6.10	6.10			0,10
		НТГГ	21	6.10	6.10	6,10	6.10	6 10	6 10
		HILL	21	6.10	6.10	6.10	6 10	6 10	0.10
		HILL	21	6.10	6.10	6 10	6 10	0.10 C 10	6.10
		HILL	21	6.10	6.10	6 10	0.10	6.10	6.10
GRIDCART	UCART5	END			0.10	0.10			
GRIDCART	UCART6	STA							
		XYINC	632607	96 21	12 20 4000		_		
		ELEV	1	5 00	10.02 4203	554.98 21	32.37		
			1	5.00	5.80	5,80	5.80	5.80	5.80
			1	5,80	5.80	5.80	5.80	5.80	5.80
		러마다 A 러도 러스	1	5.90	6.10	6.10	6.10	6.10	6 10
		ビルビン	1	6.10	6.10	6.10			0.10
		ELEV	2	5.80	5.80	5.80	5.80	5 80	E OO
		ELEV	2	5.80	5.80	5.80	5 90	5.00	5.80
		ELEV	2	6.10	6.10	6 10	5.J0 6.10	0.00	6.10
		ELEV	2	6.10	6 10	6 10	0.10	6.IU	6.10
		ELEV	3	6 10	5 90	5.10	F 0.0		
		ELEV	3	5 80	5.90	5,80	5.80	5.80	5.80
		ELEV.	3	C 10	5.90	6.00	6.10	6.10	6.10
		राष्ट्र स्वार्य	່ ໂ	0.10	6.10	6.10	6.10	6.10	6.10
		to Trita Z	2	6.1U	6.10	6.10			
		сцсv пт mrz	4	6.10	6.10	6.10	6.10	6.10	6 10
		ELEV	4	6.10	6.10	6.10	6.10	6.10	6 10
		ELEV	4	6.10	6.10	6.10	6.10	6 1 0	6 10
		ELEV	4	6.10	6,10	6.10	0,10	0.10	0.10
		ELEV	5	6,10	6.10	6 10	6 10	C 10	
		ELEV	5	6.10	6 10	6 10	0.10	6.1U	6.10
		ELEV	5	6 10	6 10	0.10	6.10	6.10	6.10
		ELEV	5	6 10	0,10 C 10	6.10	6.IQ	6.10	6.10
		ELEV	é	6 20	6.10	6.1U			
			C	0.20	6.20	6.20	6,20	6.20	6.20
			0	6.20	6.20	6.10	6.10	6.10	6.10
		ビービッ	6	6.10	6,10	6.10	6.10	6.10	6 10
		ELEV	6	6.10	6.10	6.10			0.10
		ELEV	7	6.40	6.40	6.40	6.40	6 40	6 40
		ELEV	7	6.40	6.40	6.30	6 20	6.20	6.40
		ELEV	7	6.20	6.10	6 10	6 10	0.20	6.20
		ELEV	7	6.10	6 10	6 10	0.10	6.10	6,10
		ELEV	8	6.40	6.40	6 40	C 40		
		ELEV	8	6 40	6.40	6,40	6.40	6,40	6.40
		FLEV	Ř	6 20	6.40	6.50	6.50	6,50	6.40
			0	0.30	6.30	6.20	6.10	6,10	6.10
		CTITE A	8	6.10	6.10	6.10			
		ビレビマ	9	6.40	6,50	6,60	6.60	6.60	6 60
		ELEV	9	6.60	6,60	6.70	6.70	6 60	6.60
		ELEV	9	6.60	6.60	6.40	6 20	6.10	0.00
		ELEV	9	6.10	6.10	6.10	~ • V	0.10	0.10
		ELEV	10	6.60	6.70	6 70	6 70		
		ELEV	10	6 70	6 00	6.00	0.70	6.70	6.70
		ELEV	10	7 00	7 10	0.90	6,90	6.90	6.90
		v ELLEV7	10	6 10	/.10	7.20	7.20	7.00	6.60
			4V 11	0,40	6.60	6,70			
		ышыү Бтруу	⊥.⊥ 	6.70	6.70	6.70	6,80	6.90	6.90
		цццц п.т	ΤŢ	6.90	7.00	7.00	7.00	7.10	7 30
		ELEV	11	7.40	7.50	7.60	7,60	7.60	7.00
									7.590

ELEV	11	7.40	7.40	7.50			
ELEV	12	6.70	6.90	7.00	7.00	7 00	7 00
ELEV	12	7.00	7.10	7.20	7.30	7.00	7.00
ELEV	12	7.50	7.60	7.60	7.60	7.50	7.30
ELEV DIEU	12	7.60	7.60	7.60		1.00	7.60
ETEA BI BL	13	7.00	7.00	7.00	7.00	7.00	7 10
ELEV DI DI	13	7.20	7.30	7.30	7.40	7 50	7.10
ELEV Drave	13	7.60	7.60	7.60	7,60	7,60	7.00
	13	7.60	7.60	7.60			7.00
出した>	14	7.00	7.00	7.00	7.00	7.00	7 10
드니다. 도그 도구	14	7.30	7.30	7.30	7.40	7.50	7.10
다니다 V 다기다 77	14	7.60	7.60	7.60	7.60	7.60	7 60
ELEV FT FV	15	7.60	7.60	7.60			7.00
ELEV	15	7.00	7.00	7.00	7.00	7.00	7.10
ELEV	15	7.30	7.30	7.30	7.40	7.50	7,60
ELEV	15	7.60	7.60	7.60	7.60	7.60	7.60
ELEV	16	7.60	7.60	7.60			
ELEV	16	7.00	7.00	7.00	7.20	7.30	7.30
ELEV	16	7.30	7.40	7.50	7.60	7.60	7.60
ELEV	16	7.00	7.60	7.60	7.60	7.60	7.60
ELEV	17	7,00	7.60	7.60			
ELEV	17	7,00	7.00	7.00	7.20	7.30	7.30
ELEV	17	7.50	7.40	7.50	7.60	7.60	7.60
ELEV	17	7.60	7.60	7,60	7.60	7.60	7.60
ELEV	18	7.00	7.00	7.50	-		
ELEV	18	7.30	7.00	7.00	7.20	7.30	7.30
ELEV	18	7.60	7,40	7.50	7,60	7.60	7.60
ELEV	18	7.60	7.00	7,60	7.60	7.60	7.60
ELEV	19	6,90	7.40	7.30			
ELEV	19	7.40	7.50	7.00	7.20	7.30	7.40
ELEV	19	7.60	7.00	7.60	7.60	7.60	7.60
ELEV	19	7,60	7:40	7.00	7.60	7.60	7.60
ELEV	20	6.70	6.80	6 90			
ELEV	20	7.50	7.60	7 60	7.00	7.10	7.30
ELEV	20	7.60	7.60	7.60	7.60	7.60	7.60
ELEV	20	7.60	7.40	7.30	7.00	7.60	7,60
ELEV	21	6.60	6.60	6.70	6 80	7 00	
ELEV	21	7.40	7.50	7.60	7 60	7.00	7.20
ELEV	21	7.60	7.60	7.60	7.60	7.60	7.60
ELEV	21	7.60	7.40	7.30	/.00	1.00	/.60
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HILL	1	5.80	5,80	5.80	5.80	5 80	5.80
HILL	1	5.90	6.10	6,10	6.10	6 10	5.80
HILL	1	6.10	6.10	6.10	0,20	0,10	0.10
HILL.	2	5.80	5.80	5.80	5.80	5 80	5 00
HILL	2	5.80	5.80	5.80	5,90	6.00	5.00
HILL	2	6.10	6.10	6.10	6.10	6 10	6 10
HILL	2	6.10	6.10	6.10		0.10	0.10
HILL	3	6.10	5.90	5.80	5.80	5.80	5 00
HILL	3	5.80	5,90	6.00	6.10	6.10	5.00
HTTT	3	6.10	6.10	6.10	6.10	6.10	6.10
HIII HIII	3	6.10	6.10	6.10	-		Υ÷ΤŲ
데그는는 Marra	4	6.10	6.10	6.10	6.10	6.10	6 10
пттт пттт	4	6.10	6.10	6.10	6.10	6.10	6 10
П⊥ШЦ ПТТТТ	4	6.10	6.10	6.10	6.10	6.10	6,10
пттт иттт	4 5	6,10	6.10	6.10		··· •	~ • - V
대문학	5	6.10	6.10	6.10	6.10	6.10	6,10

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HILL	5	6.10	6.10	6.10 6.10	6.10	6.10	6.10
HILL	6	6.20	6.20	6.20	6.20	6 20	6 00
HILL	6	6.20	6,20	6.10	6.10	6.10	6 10
HILL	6	6.10	6.10	6.10	6.10	6.10	6.10
птпт. Нтгт	6 7	6.10	6.10	6.10			
HILL	7	6 40	6.40 6.40	6.40	6.40	6.40	6.40
HILL	7	6.20	6.10	6.3U 6.10	6.20	6.20	6.20
HILL	7	6.10	6.10	6 10	0.10	6.10	6.10
HILL	8	6.40	6.40	6.40	6.40	6 40	6 40
HILL	8	6,40	6.40	6.50	6.50	6.50	6.40 6.40
HILL	8	6.30	6.30	6.20	6.10	6.10	6.10
НТТТ ПТТТ	8	6.10	6.10	6.10			
лтыр НТтт	9	6.40	6.50	6.60	6.60	6.60	6.60
	9	6.60	6.6U 6.60	6.70	6.70	6.60	6.60
HILL	9	6.10	6.60 6.10	6,40	6.20	6.10	6.10
HILL	10	6.60	6.70	6.70	6 70	6 70	6 70
HILL	10	6,70	6.80	6.90	6.90	6.70	6.70
HILL	10	7.00	7.10	7.20	7.20	7.00	6.90
HILL	10	6.40	6.60	6.70	-		0.00
HILL	11	6.70	6.70	6.70	6.80	6.90	6.90
Д⊥ЦЦ ЦТТ.Т	⊥⊥ 1 1	6.90	7.00	7.00	7.00	7.10	7.30
	11 11	7.40	7.50	7.60	7,60	7.60	7.40
HILL	12	6 70	6 90	7.50	7 00	5 00	
HILL	12	7.00	7.10	7.00	7,00	7.00	7.00
HILL	12	7.50	7.60	7.60	7.50	7.30	7.30
HILL	12	7.60	7.60	7.60		/.00	7.60
HILL	13	7.00	7.00	7.00	7.00	7.00	7.10
HILL	13	7.20	7.30	7.30	7.40	7.50	7.60
НІЦЦ ПІТТІ	13	7.60	7.60	7.60	7.60	7.60	7.60
ицццц ИПТ.Т.	10 10	7,60	7,60	7.60			
HTLL	14	7.00	7.00	7.00	7.00	7.00	7.10
HILL	14	7.60	7.50	7.30	7.40	7.50	7.60
HILL	14	7,60	7.60	7.60	7.60	7.60	7.60
HILL	15	7.00	7.00	7.00	7.00	7 00	7 10
HILL	15	7.30	7.30	7.30	7.40	7.50	7.10
HILL	15	7.60	7.60	7.60	7.60	7.60	7.60
HILL	15 _	7,60	7.60	7.60			
ДТТТ. ПТТТ	16 16	7.00	7.00	7.00	7.20	7.30	7.30
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HILL	16	7.60	7,60	7.60	7.60	7.60	7.60
HILL	17	7.00	7.00	7.00	7 20	7 20	
HILL	17	7.30	7.40	7.50	7.60	7.30	7.30
HILL	17	7.60	7.60	7,60	7.60	7.60	7.60
HILL	17	7.60	7.60	7.50			7.00
HILL	18	7.00	7.00	7.00	7.20	7.30	7.30
HILL UTTT	18	7.30	7.40	7.50	7.60	7.60	7.60
пттт птттт	10 10	7.60	7,60	7.60	7.60	7.60	7,60
чттлт.	19	1.00	7.40	7.30			
HILL	19	7,40	7.00	7.00	7.20	7.30	7.40
HILL	19	7.60	7.60	7,60	7.60	7.60	7,60 7,60
						1.00	1.00

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HILL
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    GRIDCART UCART6 END
 RE FINISHED
 **
 ** AERMOD Meteorology Pathway
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 ME STARTING
   SURFFILE "L:\SSD FOLDERS\Modeling\AermodMet 14134\Not 1 Minute Met
 Data\Executive\10-14\Exec 10-14 N1MD.SFC"
   PROFFILE "L:\SSD FOLDERS\Modeling\AermodMet 14134\Not 1 Minute Met
 Data\Executive\10-14\Exec 10-14 N1MD.PFL"
   SURFDATA 23232 2010 SACRAMENTO/EXECUTIVE ARPT
   UAIRDATA 23230 2010 OAKLAND/WSO_AP
   PROFBASE 6.0 FEET
ME FINISHED
**
** AERMOD Output Pathway
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**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST C:\25725nr\25725NR.AD\01H1GALL.PLT 31
  PLOTFILE 1 STK1 1ST C:\25725nr\25725NR.AD\01H1G001.PLT 32
  PLOTFILE PERIOD ALL C:\25725nr\25725NR.AD\PE00GALL.PLT 33
  PLOTFILE PERIOD STK1 C:\25725nr\25725NR.AD\PE00G000.PLT 34
OU FINISHED
**
** Project Parameters
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM
         World Geodetic System 1984
** DTMRGN Global Definition
** UNITS
         m
** ZONE
         10
** ZONEINX 0
**
```



HARP2 - HRACalc (dated 17023) 10/5/2018 11:00:27 AM - Output Log

Receptor Type: Resident Scenario: All Calculation Method: Derived

Start Age: -0.25 Total Exposure Duration: 30

Exposure Duration Bin Distribution 3rd Trimester Bin: 0.25 0<2 Years Bin: 2 2<9 Years Bin: 0 2<16 Years Bin: 14 16<30 Years Bin: 14 16 to 70 Years Bin: 0

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True Soil: True Dermal: True Mother's milk: True Water: False Fish: False Homegrown crops: False Beef: False Dairy: False Pig: False Chicken: False Egg: False

Daily breathing rate: RMP

Worker Adjustment Factors Worker adjustment factors enabled: NO

Fraction at time at home 3rd Trimester to 16 years: OFF 16 years to 70 years: ON

Deposition rate (m/s): 0.05 Soil mixing depth (m): 0.01 Dermal climate: Mixed TIER 2 SETTINGS Tier2 not used. Calculating cancer risk Cancer risk breakdown by pollutant and receptor saved to: C:\25725res\25725RESHARP\hra\25725resharpoutCancerRisk.csv Cancer risk total by receptor saved to: C:\25725res\25725RESHARP\hra\25725resharpoutCancerRiskSumByRec.csv Calculating chronic risk Chronic risk breakdown by pollutant and receptor saved to: C:\25725res\25725RESHARP\hra\25725resharpoutNCChronicRisk.csv Chronic risk total by receptor saved to: C:\25725res\25725RESHARP\hra\25725resharpoutNCChronicRiskSumByRec.csv Calculating acute risk Acute risk breakdown by pollutant and receptor saved to: C:\25725res\25725RESHARP\hra\25725resharpoutNCAcuteRisk.csv Acute risk total by receptor saved to: C:\25725res\25725RESHARP\hra\25725resharpoutNCAcuteRiskSumByRec.csv HRA ran successfully

$\frac{100414MAXHR.txt}{100414PER.txt}$ $\frac{106990MAXHR.txt}{106990PER.txt}$ $\frac{107028MAXHR.txt}{107028PER.txt}$ $\frac{108883MAXHR.txt}{108883PER.txt}$ $\frac{1151PER.txt}{1330207MAXHR.txt}$ $\frac{1330207MAXHR.txt}{50000MAXHR.txt}$ $\frac{50000MAXHR.txt}{71432MAXHR.txt}$	Ground level conc	Background PolID I		STOKI	stck1	stckl	stck1	stckl	stck1	Stok1	stck1	stck1	Emissions ScrID	***EMISSION INVI No. of Pollutant No. of Backgrou	Vorigin X (m):0 Y (m):0 Zone:1 No. of Sources: No. of Building	***FACILITY INF	***PROJECT INFC HARP Version: 1 Project Name: 2 Project Output HARP Database:	HARP Project St
	entration fil	PolAbbrev	C		0	0 0		0	00		0	0	StkID	ENTORY*** ts:12 nd Pollutants:	s: 0	ORMATION***	DRMATION*** 18159 25725RESHARP Directory: C: NA	ummary Report
	es (\glc\)	Conc (ug/m^3)	C	0	0 0		0	0		0	00		ProID	0			\25725res\25725R	11/9/2018 11:04:
		MWAF	7664417	1330207	108883	1151	91203	50000	71432	107028	106990 75070		PolID				ESHARP	15 AM
			NH3	Xvlenes	Propylene Oxide	PAHs-w/o	Naphthalene	Ethyl Benzene Formaldehvde	Benzene	Acrolein	1,3-Butadiene		PolAbbrev					
			1 (1	-1 - -	4 , 4	н .	⊢ - i ⊦		1 4		دـــر ه		Multi					
			203 192334,8832	1830	409	31	2 8 L	451	169	564 200 2	6.06	(lbs/yr)	Annual Ems					
		906	0.103 21.956	0.209	0.0467	0 00327	1.14	0-0515	0.0103	0.0644	0.000692	(lbs/hr)	MaxHr Ems					
		Ц	-	ч	⊣⊣	ب د	Ţ	H H		Ţ			MWAF					

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25725resharpout 25725resharpout 25725resharpout 25725resharpout	***LIST OF RIS Health risk and	***LIST OF AIR AERMOD Input F AERMOD Output AERMOD Error F Plotfile list	***METEOROLOGY Version: Surface File: Profile File: Surface Static Upper Station: On-Site Statio	AERMAP: 18081 AERMAP: 18081 AERMAP: 18081 BPIPPRM: 04277 AERPLOT: 13322	***AIR DISPER Versions used	75569 108883 1330207 7664417	91203 1151	50000 50000	107028 71432	106990 75070	PolID	***POLLUTANT Health Datab Health Table Official: Tr	75070MAXHR. 75070PER.tx: 75569MAXHR.t 75569PER.txt 7664417MAXHI 7664417PER.t 91203MAXHR.t 91203PER.txt
iCancerRisk.cs⊽ CancerRiskSumByRe GLCList.cs⊽ HRAInput.hra	(ASSESSMENT FILES llysis files (\hra	DISPERSION FILES ile: File: lle:	CAL INFORMATION** n: n:	in Hake. All exe pa.gov/scram001/) 	SION MODELING INFO	Propylene Oxid Toluene Xylenes NH3	Naphthalene PAHs-w/o	Ethyl Benzene Formaldehyde	Acrolein Benzene	1,3-Butadiene Acetaldehyde	PolAbbrev	HEALTH INFORMATIC ase: C:\HARP2\Tab Version: HEALTH18 re	x x t t t t t t t t t t t t t t t t t t
C.CSV	\) ** *	*	¥	cutables were o	RMATION***	0.013	0.12 3 0	0.0087	0.1	0.6	InhCancer	NN*** .es\HEALTH17320. 1121	
				btained from USF		ţ	4				OralCancer	mdb	
				IPA's Support Ce		3100 37000 22000 3200	Մ Մ		2.5 2.5	099	AcuteREL		
			·	enter for Regulatory		300 700 200	ون ف ف	3 2000	140 0+35	2	InhChronicREL		
				Atmospheric Modelj			Q	ω	30 •	Q	OralChronicREL In		
				ing website					- 7		hChronic8HRBFT.		

25725resharpoutNCAcuteRisk.csv 25725resharpoutNCAcuteRiskSumByRec.csv 25725resharpoutNCChronicRisk.csv 25725resharpoutNCChronicRiskSumByRec.csv 25725resharpoutNCChronicRiskSumByRec.csv 25725resharpoutDutput.txt 25725resharpoutPathwayRec.csv 25725resharpoutPolDB.csv

c.

Spatial averaging files (\sa\)

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 ** AERMOD Input Produced by:
 ** AERMOD View Ver. 9.5.0
 ** Lakes Environmental Software Inc.
 ** Date: 11/9/2018
 ** File: C:\25725res\25725resinputfile2.inp
 **
 ******
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 **
 *****************
 ** AERMOD Control Pathway
 * *
 **
CO STARTING
   TITLEONE C:/SPA
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 466488 Sacramento
   POLLUTID SO2
   RUNORNOT RUN
CO FINISHED
**
** AERMOD Source Pathway
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STK1
                         POINT 633087.100 4263610.400 6.400
** Source Parameters **
   SRCPARAM STK1
                                1.0 30.480 388.706 18.52945 5.182
** Building Downwash **
  BUILDHGT STK1
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  BUILDHGT STK1
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  BUILDHGT STK1
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  BUILDWID STK1
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                                      29.56 29.00 27.56 25.87
  BUILDWID STK1
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  BUILDWID STK1
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  BUILDWID STK1
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                            20.8417.3313.3017.3320.8425.8727.6829.1029.6329.26
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  BUILDWID STK1
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  BUILDLEN STK1
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	XBADJ	STK1		-23	2.69	-22.0	69 _	22 00	-10.	00 -	-20.65	-22.00
	XBADJ	STK1		-23	L.61	-19.8	R1	17 11	- 22.	95 -	-23.20	-22.75
	XBADJ	STK1		_ '	7.70	-7 -	- בי היר	1/.41 77 c1	~14. _	48 -	-11.11	-7.40
	XBADJ	STK1		— A	5.94	-6 6		-/.61	-7.	21	-7.04	-7.10
	XBADJ	STK1		_ F	5 95	-0.0)/ -	-6.00	-6.	27	-6.36	-6.25
					••••	-0.0	- 0	-6.31	~6,	37	-6.23	-5.90
	YBADJ	STK1		c	24	0		_				
	YBADJ	STK1			06	8.4	2	8.25	7.	83	6.87	5.55
	YBADJ	STK1		4 E	.06	2.4	4	0.75	-0.	96	-2.65	~4 25
	YBADT	STR1			• 72	-6.8	10 -	7.45	-7.	88	-8.06	-8 00
	YBADJ	STR1		-8	.34	-8.4	2 -	8.25	~7.	83	-6.87	-5 55
	YBADJ	STICI SMR1		-4	.06	-2.4	4 -	0.75	Ο.	96	2.65	J 25
	# D21D0	OTVT		5	.72	6.8	0	7.45	7.	88	8.06	9,20
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***	VUVWOD KG	ceptor	Pathwa	Y								
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	A - -											
RE	STARTING											
	GRIDCART	UCART1	STA									
			XYINC	63366	5.59 2	21 22	48 124	52575 C	0 01	00 01		
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			ELEV	1	7.0	50	7.20	/.	30	7.30) 7.4(7.50
			ELEV	1	7.0	50	7.60	7.	60	7.60	7.60	7.60
			ELEV	2	7.0		7.60	7.	60			
			ELEV	2	7.0		7.00	7.	00	- 7,00	7.00	7.00
			ELEV	2	7.0	10	7.20	7.	30	7.30	7.30	7.30
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			र युवा यु र	4	7.6	0	7.60	7.	60			,.00
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			ELEV	3	7.4	0	7.50	7.	60	7.60	7 60	7.50
			ETEA Marina	3	7.6	0	7.60	7.0	60		1.00	7.00
			ELEV	4	7.0	0	7.00	7.0	00	7.00	7 00	7 10
			ELEV	4	7.3	0	7.30	7.3	30	7 30	7.00	7.10
			ELEV	4	7.3	0	7.40	7.4	50	7 60	7.30	7.30
			ELEV	4	7.6	0	7,60	7.6	50	1.00	7.60	7.60
			ELEV	5	7.0	0	7.00	7.0	0	7 00		
			ELEV	5	7.30	0	7.30	7.0	20	7,00	7.10	7.30
			ELEV	5	7.30	ñ	7 30	/• 	0 0	/.30	7.30	7.30
			ELEV	5	7.60	n n	7.60	1.3		7.50	7.60	7.60
			ELEV	6	7 00	ວ ົ	7.00	1.6	0			
			ELEV	6	7.30		7.00	/.1	.0	7.20	7.30	7,30
			ELEV	6	7 20	ָ า	7.30	7.3	0	7.30	7.30	7.30
			ELEV	6	7.50	, ,	7.30	7.3	0	7.50	7.60	7,60
			ELEV	7	7.00	, ,	7.60	7.6	0			
				7	/.L()	1.20	7.3	0	7.30	7.30	7.30
			оцсу ГТГ77	' -	7.30	J	7.30	7.3	0	7.30	7,30	7 20
			ыцы V Бтрт	/	7.30)	7.30	7.5	0	7,60	7,60	7 60
			БЦБV Пт пт	1	7.60)	7.60	7.6	0			1.00
			цпЕΛ	8	7.30	}	7.30	7.3	0	7.30	7 20	7 20
											1.00	/.30
ELEN ELEN ELEN	V 8 V 8 V 8	7.30 7.40 7.60	7.30 7.60 7.60	7.30 7.60 7.60	7.30 7.60	7.30 7.60	7.30 7.60					
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ELEV ELEV ELEV ELEV	797 979 79	7.30 7.40 7.60 7.60	7.30 7.40 7.60 7.60	7.30 7.50 7.60	7.30 7.60 7.60	7.30 7.60 7.60	7.30 7.60 7.60					
ELEV ELEV ELEV ELEV	7 10 10 10 10	7.30 7.60 7.60 7.60	7.30 7.60 7.60 7.60	7.80 7.30 7.60 7.60	7.40 7.60 7.60	7.50 7.60 7.60	7.50 7.60 7.60					
ELEV ELEV ELEV ELEV	11 11 11 11	7.30 7.60 7.60 7.60	7.30 7.60 7.60 7.60	7.60 7.60 7.60	7.50 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	12 12 12 12	7.30 7.60 7.60 7.60	7.40 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	13 13 13 13	7.40 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	14 14 14 14	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	15 15 15 15	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	16 16 16 16	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	17 17 17 17	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	18 18 18 18	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	19 19 19 19	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	20 20 20 20	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
ELEV ELEV ELEV ELEV	21 21 21 21	7.60 7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60 7.60	7,60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60					
HILL HILL HILL	1 1 1	7.00 7.00 7.60	7.00 7.20 7.60	7.60 7.00 7.30 7.60	7.00 7.30 7.60	7.00 7.40 7.60	7.00 7.50 7.60					

	HILI	- 1	7.60	7,60	7,60				
	HILI	J 2	7.00	7.00	7.00	7 00			
	HILL	- 2	7.00	7.20	7.00	7.00	7.00	7.00	
	HILL	2	7.40	7.60	7.50	7.30	7.30	7.30	
	HILL	2	7.60	7.60	7.60	7.60	7.60	7.60	
	HILL	3	7.00	7.00	7.00	7 00			
	HILL	3	7.10	7.20	7 30	7.00	7.00	7.00	
	HILL	3	7.40	7.50	7.50	7.30	7.30	7.30	
	HILL	3	7.60	7.60	7.60	7.60	7.60	7.60	
	HILL	4	7.00	7.00	7 00	7 00			
	HILL	4	7.30	7.30	7 30	7.00	7.00	7.10	
	HILL	4	7.30	7.40	7.60	7.30	7.30	7.30	
	HILL	4	7.60	7.60	7.60	7.60	/.60	7.60	
	HILL	5	7.00	7.00	7.00	7 00			
	HILL	5	7.30	7.30	7.00	7.00	7.10	7.30	
	HILL	5 .	7.30	7.30	7.30	7.30	7.30	7.30	
	HILL	5	7.60	7.60	7.60	7.50	7.60	7.60	
	HILL	6	7.00	7.00	7.10	7 00			
	HILL	6	7.30	7.30	7 30	7.20	7.30	7.30	
	HILL	6	7.30	7.30	7.30	7.30	7.30	7.30	
	HILL	6	7.60	7.60	7.50	7.50	7.60	7.60	
	HILL	7	7.10	7.20	7.00	7 20			
	HILL	-7	7,30	7.30	7.30	7.30	7.30	7.30	
	HILL	7	7.30	7.30	7.50	7.30	7.30	7.30	
	HILL	7	7.60	7.60	7.50	7.60	7.60	7.60	
	HILL	8	7.30	7,00	7.00	7 00	_		
	HILL	8	7.30	7.30	7.30	7.30	7.30	7.30	
	HILL	8	7.40	7.60	7.30	7.30	7.30	7.30	
	HILL	8	7,60	7,00	7.60	7.60	7.60	7.60	
-	HITT	9	7.30	7.00	7.00				
	HILL	9	7.40	7.30	7.30	7.30	7.30	7.30	
	HILL	9	7.60	7.40	7.50	7.60	7.60	7.60	
	HILL	9.	7.60	7.00	7.60	7.60	7.60	7.60	
	HILL	10	7 30	7.00	7.60				
	HILL	10	7.60	7.50	7.30	7.40	7.50	7.50	
	HILL	10	7.60	7.60	7.60	7.60	7.60	7.60	
	HTTI	10	7.60	7.60	7.60	7.60	7.60	7.60	
	HTLL	11	7.00	7.60	7.60				
	HTTT	11	7.30	1.30	7.30	7.50	7.60	7.60	
	HTLL	11	7.60	7.60	7.60	7,60	7.60	7.60	
	HTT.T.	11 11	7.60	7.60	7.60	7.60	7.60	7.60	
	НТТ.Т.	ユー 1つ	7.60	7.60	7.60				
	HTTT	10 1	7.30	7.40	7.60	7.60	7,60	7.60	
	НТТ.Т.	⊥∠ 10	7.60	7.60	7.60	7.60	7.60	7.60	
н. - С	нттт.	12	7.60	7.60	7.60	7.60	7.60	7.60	
	н <u>т</u> .т.	12	7.60	7.60	7.60				
	нтт.т.	10	7.40	7.60	7.60	7.60	7.60	7.60	
	한 고 다 고 다 고 다 다	10	7.60	7.60	7.60	7.60	7.60	7 60	
		10	7.60	7.60	7.60	7.60	7.60	7 60	
	ᅚᅚᅚ	13	7.60	7.60	7.60			1,00	
	LITTT T	⊥ ⊈ 1 ∧	7.60	7.60	7.60	7.60	7,60	7 60	
	ուլի սու	14 14	7.60	7.60	7.60	7.60	7.60	7.60	
	ጠታምት ከተታት	14 14	7.60	7.60	7.60	7,60	7.60	7.00	
	⊓⊥⊔⊔ ⊓≖≖≖	14	7.60	7.60	7.60			7.00	
	비누가가	15	7.60	7.60	7.60	7,60	7 60	7 60	
	HLLL	15	7.60	7.60	7.60	7.60	7 60	7.60	
	HILL	15	7.60	7.60	7.60	7.60	7 60	7.60	
	HILL	15	7.60	7.60	7.60	,,	1.00	/.60	
	HILL	16	7,60	7,60	7.60	7 60	7 60		
						7.100	1.60	7.60	

		HILL HILL HILL	16 16 16	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60 7.60	7.60 7.60	7.60 7.60	7.60 7.60
		HILL	17	7.60	7.60	7.60	7.60	7.60	7 60
		HILL	17	7.60	7.60	7.60	7.60	7.60	7.60
		НІЦЦ ЦІТТТ	17 17	7.60	7.60	7.60	7.60	7.60	7.60
		нты. Нтыт	18	7.60	7.60	7.60			
		НТТЛ	18	7.60	7.60	7.60	7.60	7.60	7.60
		HILL	18	7.00	7.60	7.60	7.60	7.60	7.60
		HILL	18	7.60	7.60	7.60	7.60	7.60	7.60
		HILL	19	7.60	7.60	7.60	7 60	5 60	
		HILL	19	7.60	7.60	7.60	7.60	7.60	7.60
		HILL	19	7.60	7.60	7.60	7.60	7.00	7.60
		HILL	19	7.60	7.60	7.60			7.00
		HILL	20	7.60	7.60	7.60	7,60	7,60	7 60
		HILL	20	7.60	7.60	7.60	7.60	7.60	7,60
		HILL HTTT	20	7.60	7.60	7.60	7.60	7.60	7.60
		птрь птгт	20	7.60	7.60	7.60			
		ИТЪТ.	∠⊥ 21	7.60	7.60	7.60	7.60	7.60	7.60
		НТЪТ	21	7.60	7.60	7.60	7.60	7.60	7.60
		HILL	21	7.60	7.60	7.60	7.60	7,60	7.60
GRIDCART	UCART1	END		,	7.00	7.00			
GRIDCART	UCART2	STA							
		XYINC	633523	.43 21	7.43 426399	1.12 21	8.10		
		ELEV	1	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	1	7.30	7,30	7.30	7,30	7.30	7.30
		ELEV	1	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV ET ENZ	1	7.30	7.30	7.30			
		етел Бтел	2	7.30	7.30	7.30	7.30	7.30	7.30
		FLEV	2	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	2	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	3	7.30	7.30	7.30	7 30	7 20	
		ELEV	3	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	3	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	3	7.30	7.30	7.30		1.00	7.50
		ELEV	4	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV BIBI	4	7.30	7.30	7.30	7,30	7.30	7.30
		ELEV ELEV	4	7.30	7.30	7.30	7,30	7.30	7.30
		ELEV	т 5	7.30	7.40	7.40			
		ELEV	5	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	5	7.30	7.30	7.30	7.30	7.30	7.30
	I.	ELEV	5	7.30	7.40	7.30	7.30	7.30	7.30
		ELEV	6	7.30	7.30	7.30	7 30	7 30	7 00
		ELEV	6	7.30	7.30	7.30	7.30	7,30	7.30
		ELEV	6	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	6	7.30	7.40	7.50			7.00
		вц≝V Бтву	/ 7	7.30	7.30	7.30	7.30	7.30	7.30
		ETEV ETEV	7 "7	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	7	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	8	7.30	7.4V 7.20	1.50	7 00		_
		ELEV	8	7.30	7.30	7 30	7.30	7.30	7.30
		ELEV	8	7.30	7.30	7.30	7.30	7.30	7.30
		ELEV	8	7.30	7.40	7.50	/ • U U	1.30	1.30

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ELEV ELEV ELEV ELEV	7 9 7 9 7 9	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.40	7.30 7.30 7.30 7.50	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
ELEV ELEV ELEV ELEV	10 10 10 10	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.40	7.30 7.30 7.30 7.50	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
ELEV ELEV ELEV ELEV	11 11 11 11	7.30 7.30 7.30 7.40	7.30 7.30 7.30 7.50	7.30 7.30 7.30 7.50	7.30 7.30 7.30	7.30 7.30 7.40	7.30 7.30 7.40
ELEV ELEV ELEV ELEV	12 12 12 12	7.30 7.30 7.30 7.50	7.30 7.30 7.30 7.50	7.30 7.30 7.30 7.60	7.30 7.30 7.40	7.30 7.30 7.40	7.30 7.30 7.40
ELEV ELEV ELEV ELEV	13 13 13 13	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.50
ELEV ELEV ELEV	14 14 14 14	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
ELEV ELEV ELEV ELEV	15 15 15 15	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
ELEV ELEV ELEV ELEV	16 16 16 16	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
ELEV ELEV ELEV ELEV	17 17 17 17	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
ELEV ELEV ELEV ELEV	18 18 18 18	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
ELEV ELEV ELEV ELEV	19 19 19 19	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
ELEV ELEV ELEV ELEV	20 20 20 20	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
ELEV ELEV ELEV ELEV	21 21 21 21	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
HILL HILL HILL HILL	1 1 1 1	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL	2 2	7.30	7.30 7.30	7.30 7.30 7.30	7.30 7.30	7.30 7.30	7.30 7.30

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HILL HILL	2. 2	7.30 7.30	7.30	7.30	7.30	7.30	7.30
HILL	3	7.30	7.30	7.30	7 20		
HILL	3	7.30	7.30	7.30	7.30	7.30	7.30
HILL	3	7.30	7.30	7 30	7.30	7.30	7.30
HILL	3	7.30	7.30	7.30	7.30	7.30	7.30
HILL	4	7.30	7.30	7.30	7 30	7 20	7 00
HILL	4	7.30	7.30	7.30	7.30	7.30	7.30
HILL	4	7.30	7.30	7.30	7.30	7.30	7.30
HILL	4	7.30	7.40	7.40	/	1.50	7.30
HILL	5	7.30	7.30	7.30	7.30	7 30	7 20
нттт	5	7.30	7,30	7.30	7.30	7.30	7.30
HTTT HTTT	5	7.30	7.30	7.30	7.30	7.30	7 30
пттт иттт	5	7.30	7.40	7.40			7.00
г.т. Г.Т.Т.Т.	6	7.30	7.30	7.30	7.30	7.30	7.30
	6	7.30	7.30	7.30	7.30	7.30	7.30
	6	7.30	7.30	7.30	7,30	7.30	7.30
HTLL	7	7.30	7.40	7.50			
HILL	7	7.30	7.30	7.30	7.30	7.30	7.30
HILL	, 7	7.30	7.30	7.30	7.30	7.30	7.30
HILL	7	7.30	7.30	7.30	7.30	7.30	7.30
HILL	8	7.30	7.40	7,50		_	
HILL	8	7.30	7,30	7.30	7.30	7.30	7.30
HILL	8	7.30	7.30	7.30	7.30	7.30	7.30
HILL	8	7.30	7.40	7.50	7.30	7.30	7.30
HILL	9	7.30	7.30	7.30	7 20	7 00	
HILL	9	7.30	7.30	7.30	7.30	7.30	7.30
HILL	9	7.30	7.30	7.30	7.30	7.30	7.30
HILL	9	7.30	7.40	7.50	,	7.30	7.30
HILL	10	7.30	7.30	7.30	7.30	7 30	7 20
HILL	10	7.30	7.30	7.30	7.30	7.30	7.30
HILL	10	7.30	7.30	7.30	7.30	7.30	7.30
HILL	10	7,30	7.40	7,50			7.50
HILL	11	7.30	7.30	7.30	7.30	7.30	7 30
HILL	11	7.30	7.30	7.30	7.30	7.30	7.30
Fill Lill FITTTT		7.30	7.30	7.30	7.30	7.40	7.40
11 - 1 - 1 11 - 1 - 1 - 1 - 1 - 1 - 1 -		7.40	7.50	7.50			
11 T T T T 11 T T T T	10	7.30	7.30	7.30	7.30	7.30	7.30
	12 12	7.30	7.30	7,30	7.30	7.30	7.30
HTT.T.	12	7.30	7.30	7.30	7.40	7.40	7.40
HTTT.	13	7.50	7.50	7.60			
HILL	13	7.30	7.30	7.30	7.30	7,30	7.30
HILL	13	7 30	7.30	7.30	7.30	7.30	7.30
HILL	13	7.60	7.50	7.30	7.40	7.50	7.50
HILL	14	7.30	7.00	7.60			
HILL	14	7.30	7.30	7.30	7.30	7.30	7.30
HILL	14	7.30	7,30	7,30	7.30	7.30	7.30
HILL	14	7.60	7.60	7.40	7.40	7.50	7.60
HILL	15	7.30	7 30	7,00	7 20	— • •	
HILL	15	7.30	7.30	7.30	7.30	7.30	7.30
HILL	15	7.30	7.30	7 40	7.30	7.30	7.30
HILL	15	7.60	7.60	7.60	7.4U	7.50	7.60
HILL	16	7.30	7.30	7.30	7 30	7 20	7 00
HILL	16	7.30	7.30	7,30	7.30	7.3U 7.30	7.30
HILL	16	7.30	7.30	7.40	7.40	7.50	7.30
HILL	16	7.60	7.60	7.60	· • • •	1.00	1.00

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HILL 18 7.30 7			HILL HILL HILL HILL	17 17 17 17	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
HILL 19 7.30 7.00 7			HILL HILL HILL HILL	18 18 18 18	7.30 7.30 7.30 7.60	7.00 7.30 7.30 7.30 7.60	7.60 7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
HILL 20 7.30 7			HILL HILL HILL HILL	19 19 19 19	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
HILL 21 7.30 7			HILL HILL HILL HILL	20 20 20 20	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
GRIDGART UCARTS END GRIDGART UCARTS STA XYINC 633592.05 21 3.89 4263774.69 21 10.72 ELEV 1 7.00 7.00 7.00 7.00 7.00 7.00 ELEV 2 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV 2 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV 2 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.	GRIDCADM	1103 DECO	HILL HILL HILL HILL	21 21 21 21	7.30 7.30 7.30 7.60	7.30 7.30 7.30 7.60	7.30 7.30 7.40 7.60	7.30 7.30 7.40	7.30 7.30 7.50	7.30 7.30 7.60
XYINC 633592.05 21 3.89 4263774.69 21 10.72 ELEV 1 7.00	GRIDCART	UCART2 UCART3	END STA							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			XYINC	63359;	2.05 21 :	3.89 42637	74.69 21	10.72		
LLEV 1 7.00 7.			ELEV	1	7.00	7.00	7.00	7.00	7.00	7.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV ELEV	⊥ 1	7.00	7,00	7.00	7.00	7.00	7.00
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	2	7.00	7,00	7.00			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	2	7.00	7.00	7.00	7.00	7.00	7.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	2	7.00	7.00	7.00	7.00	7.00	7.00
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	3	7.00	7.00	7.00	7 00	7 00	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	3	7.00	7.00	7.00	7.00	7.00	7.00
ELEV3 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV4 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV4 7.00 7.00 7.00 7.00 7.00 7.00 ELEV4 7.00 7.00 7.00 7.00 7.00 7.00 ELEV4 7.00 7.00 7.00 7.00 7.00 7.00 ELEV5 7.00 7.00 7.00 7.00 7.00 7.00 ELEV6 7.00 7.00 7.00 7.00 7.00 7.00 ELEV6 7.00 7.00 7.00 7.00 7.00 7.00 ELEV6 7.00 7.00 7.00 7.00 7.00 7.00 ELEV7 7.00 7.00 7.00 7.00 7.00 7.00 ELEV7 7.20 7.20 7.20 7.20 7.20 ELEV7 7.20 7.20 7.20 7.20 7.20 ELEV7 7.20 7.20 7.20 7.20 7.20 ELEV8 7.00 7.00 7.00 7.30 7.30 <td></td> <td></td> <td>ELEV</td> <td>3</td> <td>7.00</td> <td>7.00</td> <td>7.00</td> <td>7.00</td> <td>7.00</td> <td>7.00</td>			ELEV	3	7.00	7.00	7.00	7.00	7.00	7.00
ELEV4 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV4 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV4 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV5 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV5 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV5 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV5 7.10 7.10 7.10 7.00 7.00 7.00 7.00 ELEV6 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV6 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV6 7.10 7.10 7.10 7.10 7.10 7.10 7.10 ELEV6 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 ELEV6 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.20 7.20 ELEV7 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 ELEV8 7.30			ELEV	3	7.00	7.00	7.00			7.00
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV ELEV	4	7.00	7.00	7.00	7.00	7.00	7.00
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	4 /	7.00	7.00	7.00	7,00	7.00	7,00
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ELEV57.007.007.007.007.007.007.00ELEV57.107.107.107.007.007.007.00ELEV67.007.007.007.007.007.00ELEV67.007.007.007.007.007.00ELEV67.007.007.007.007.007.00ELEV67.007.007.007.007.007.00ELEV67.107.207.207.207.107.10ELEV77.007.007.007.107.107.10ELEV77.207.207.207.207.207.20ELEV77.207.207.207.207.207.20ELEV87.007.007.107.107.107.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.107.107.107.107.207.20ELEV97.207.307.307.307.307.30ELEV97.207.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV9			ELEV	5	7.00	7.00	7.00	7.00	7.00	7.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	5	7.00	7.00	7.00	7.00	7.00	7.00
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ELEV6 7.00 7.00 7.00 7.00 7.00 7.00 ELEV6 7.00 7.00 7.00 7.00 7.00 7.00 ELEV6 7.10 7.20 7.20 7.20 ELEV7 7.00 7.00 7.00 7.10 7.10 ELEV7 7.10 7.10 7.10 7.10 7.10 ELEV7 7.20 7.20 7.20 7.20 7.20 ELEV7 7.20 7.20 7.20 7.20 7.20 ELEV7 7.20 7.20 7.20 7.20 7.20 ELEV8 7.00 7.00 7.10 7.10 7.10 ELEV8 7.20 7.20 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 7.30 ELEV9 7.10 7.10 7.10 7.20 7.20 ELEV9 7.20 7.30 7.30 7.30 7.30 ELEV9 7.20 7.30 7.30 7.30 7.30 7.30 ELEV9 7.20 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30			ELEV	6	7.00	7.00	7,10	7 00	7 00	
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ELEV6 7.10 7.20 7.20 7.10 7.10 7.10 ELEV7 7.00 7.00 7.00 7.10 7.10 7.10 ELEV7 7.10 7.10 7.10 7.20 7.20 7.20 ELEV7 7.20 7.20 7.20 7.20 7.20 ELEV8 7.00 7.00 7.10 7.10 7.20 ELEV8 7.20 7.20 7.20 7.20 ELEV8 7.20 7.20 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 ELEV9 7.10 7.10 7.10 7.20 FLEV9 7.20 7.30 7.30 7.30 ELEV9 7.20 7.30 7.30 7.30 FLEV9 7.30 7.30 7.30 7.30			ELEV	6	7.00	7.00	7.00	7.00	7.00	7.00
ELEV77.007.007.007.007.107.107.10ELEV77.107.107.107.207.207.20ELEV77.207.207.207.207.20ELEV77.207.207.207.207.20ELEV87.007.007.107.107.107.20ELEV87.207.207.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.107.107.107.107.207.20ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30			ELEV	6	7.10	7.20	7,20	.,	7.00	1.10
ELEV77.107.107.107.107.207.207.20ELEV77.207.207.207.207.207.207.20ELEV77.207.207.207.207.207.20ELEV87.007.007.107.107.107.20ELEV87.207.207.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.107.107.107.107.207.20ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30			ELEV Et Diz	7	7.00	7.00	7.00	7.10	7.10	7.10
LLEV77.207.207.207.207.207.207.20ELEV77.207.207.207.207.207.20ELEV87.007.007.107.107.107.20ELEV87.207.207.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.30ELEV97.107.107.107.207.20ELEV97.207.307.307.307.30ELEV97.207.307.307.307.30ELEV97.307.307.307.307.30			515V 5157	/	7.10	7.10	7.10	7.20	7.20	7.20
LLEV7.207.207.207.20ELEV87.007.007.107.107.20ELEV87.207.207.307.307.30ELEV87.307.307.307.307.30ELEV87.307.307.307.307.30ELEV87.307.307.307.307.30ELEV97.107.107.107.207.20ELEV97.207.307.307.307.30ELEV97.307.307.307.307.30ELEV97.307.307.307.307.30			ELEV	7	7.20	7.20	7.20	7.20	7.20	7.20
ELEV87.207.207.307.107.107.20ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.30ELEV87.307.307.307.307.30ELEV97.107.107.107.107.20ELEV97.207.307.307.307.30ELEV97.307.307.307.307.30ELEV97.307.307.307.307.30			ELEV	8	7.00	7.20	7.20			
ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.107.107.107.107.207.20ELEV97.207.307.307.307.307.30ELEV97.207.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30			ELEV	8	7.00	7.00	7,10	7.10	7.10	7.20
ELEV87.307.307.307.307.30ELEV97.107.107.107.107.207.20ELEV97.207.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30			ELEV	8	7.30	7.20	1.3U 7.20	7.30	7.30	7.30
ELEV97.107.107.107.207.20ELEV97.207.307.307.307.307.307.30ELEV97.307.307.307.307.307.307.30			ELEV	8	7.30	7.30	7 30	1.30	7.30	7.30
ELEV97.207.307.307.307.207.20ELEV97.307.307.307.307.307.307.30			ELEV	9	7.10	7.10	7.10	7 10	9 00	.
ELEV 9 7.30 7.30 7.30 7.30 7.30 7.30 7.30			ELEV	9	7.20	7.30	7.30	7.20	7.20	7.20
			ELEV	9	7.30	7.30	7.30	7.30	7.30	7.30

′ <u>9</u>	7.30	7.30	7.30			
10	7.20	7.20	7.20	7.20	7.20	7 30
10	7.30	7.30	7.30	7.30	7.30	7.30
10	7.30	7.30	7.30	7.30	7.30	7.30
11	7.30	7.30	7,30			
11	7.30	7.30	7.30	7.30	7.30	7.30
11	7.30	7.30	7 30	7.30	7.30	7.30
11	7.30	7.30	7.30	7.30	7.30	7.30
12	7.30	7.30	7.30	7.30	7 30	7 20
12	7.30	7.30	7.30	7.30	7.30	7.30
12	7.30	7.30	7.30	7.30	7.30	7.30
13	7.30	7.30	7.30			,
13	7.30	7.30	7.30	7.30	7.30	7.30
13	7.30	7.30	7.30	7.30	7.30	7.30
13	7.30	7.30	7.30	7.30	7.30	7.30
14	7.30	7.30	7.30	7 20	7 0 0	
14	7.30	7.30	7.30	7.30	7.30	7.30
14	7.30	. 7.30	7.30	7.30	7.30	7.30
14	7.30	7.30	7.30		7.30	7.30
15	7.30	7.30	7.30	7.30	7.30	7 30
15	7.30	7.30	7.30	7.30	7.30	7.30
15	7.30	7.30	7.30	7.30	7.30	7.30
16	7.30	7.30	7.30			
16	7.30	7.30	7.30	7.30	7.30	7.30
16	7.30	7.30	7,30	7,30	7.30	7.30
16	7.30	7.30	7.30	7.30	7.30	7.30
17	7.30	7.30	7.30	7 30	7 20	7 00
17	7.30	7.30	7.30	7.30	7.30	7.30
17	7.30	7.30	7.30	7.30	7.30	7.30
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10 18	7.30	7.30	7.30	7.30	7.30	7.30
18	7.30	7.30	7.30	7.30	7.30	7.30
18	7.30	7.30	7.30	7.30	7.30	7.30
19	7.30	7.30	7.30	7 00	-	
19	7.30	7.30	7.30	7.30	7.30	7.30
19	7.30	7.30	7.30	7.30	7.30	7.30
19	7.30	7.30	7.30	7.00	1.30	7.30
20	7.30	7.30	7.30	7.30	7.30	7 30
20	7.30	7.30	7.30	7.30	7.30	7.30
20	7.30	7.30	7.30	7.30	7.30	7.30
21	7.30	7.30	7.30			
21	7,30	7.30	7.30	7.30	7.30	7.30
21	7.30	7.30	7.30	7.30	7.30	7.30
21	7.30	7.30	7,30	7.30	7.30	7.30
1	7.00	7.00	7.30	7 00		
1	7.00	7.00	7.00	7.00	7.00	7.00
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	9 10 10 10 11 11 11 12 12 13 13 14 14 14 15 15 16 6 6 6 7 7 7 7 8 8 8 9 9 9 0 0 0 11 11 11 12 22 22 3	9 7.30 10 7.20 10 7.30 10 7.30 10 7.30 11 7.30 11 7.30 11 7.30 11 7.30 12 7.30 12 7.30 12 7.30 12 7.30 12 7.30 12 7.30 13 7.30 13 7.30 13 7.30 13 7.30 14 7.30 14 7.30 14 7.30 15 7.30 15 7.30 15 7.30 16 7.30 16 7.30 17 7.30 16 7.30 17 7.30 18 7.30 19 7.30 19 7.30 19 7.30 20 7.30 21 7.30 21 7.00 2 7.00	9 7.30 7.30 10 7.20 7.20 10 7.30 7.30 10 7.30 7.30 10 7.30 7.30 11 7.30 7.30 11 7.30 7.30 11 7.30 7.30 12 7.30 7.30 12 7.30 7.30 12 7.30 7.30 12 7.30 7.30 12 7.30 7.30 13 7.30 7.30 13 7.30 7.30 13 7.30 7.30 13 7.30 7.30 13 7.30 7.30 14 7.30 7.30 14 7.30 7.30 15 7.30 7.30 16 7.30 7.30 16 7.30 7.30 16 7.30 7.30 17 7.30 7.30 16 7.30 7.30 17 7.30 7.30 16 7.30 7.30 17 7.30 7.30 18 7.30 7.30 19 7.30 7.30 19 7.30 7.30 20 7.30 7.30 21 7.30 7.30 22 7.00 7.00 1 7.00 7.00 2 7.00 7.00 2 7.00 7.00 2 7.00 7.00 2 7.00 7.00 2 7.00 7.00 <td>9$7.30$$7.30$$7.30$$7.30$10$7.20$$7.20$$7.20$10$7.30$$7.30$$7.30$10$7.30$$7.30$$7.30$11$7.30$$7.30$$7.30$11$7.30$$7.30$$7.30$11$7.30$$7.30$$7.30$11$7.30$$7.30$$7.30$11$7.30$$7.30$$7.30$12$7.30$$7.30$$7.30$12$7.30$$7.30$$7.30$12$7.30$$7.30$$7.30$13$7.30$$7.30$$7.30$13$7.30$$7.30$$7.30$13$7.30$$7.30$$7.30$13$7.30$$7.30$$7.30$14$7.30$$7.30$$7.30$15$7.30$$7.30$$7.30$14$7.30$$7.30$$7.30$15$7.30$$7.30$$7.30$15$7.30$$7.30$$7.30$16$7.30$$7.30$$7.30$16$7.30$$7.30$$7.30$17$7.30$$7.30$$7.30$16$7.30$$7.30$$7.30$17$7.30$$7.30$$7.30$18$7.30$$7.30$$7.30$19$7.30$$7.30$$7.30$19$7.30$$7.30$$7.30$19$7.30$$7.30$$7.30$20$7.30$$7.30$$7.30$</td> <td>9 7.30 7.30 7.30 7.30 7.20 7.20 7.20 7.20 7.30 7.30</td> <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td>	9 7.30 7.30 7.30 7.30 10 7.20 7.20 7.20 10 7.30 7.30 7.30 10 7.30 7.30 7.30 11 7.30 7.30 7.30 11 7.30 7.30 7.30 11 7.30 7.30 7.30 11 7.30 7.30 7.30 11 7.30 7.30 7.30 12 7.30 7.30 7.30 12 7.30 7.30 7.30 12 7.30 7.30 7.30 13 7.30 7.30 7.30 13 7.30 7.30 7.30 13 7.30 7.30 7.30 13 7.30 7.30 7.30 14 7.30 7.30 7.30 15 7.30 7.30 7.30 14 7.30 7.30 7.30 15 7.30 7.30 7.30 15 7.30 7.30 7.30 16 7.30 7.30 7.30 16 7.30 7.30 7.30 17 7.30 7.30 7.30 16 7.30 7.30 7.30 17 7.30 7.30 7.30 18 7.30 7.30 7.30 19 7.30 7.30 7.30 19 7.30 7.30 7.30 19 7.30 7.30 7.30 20 7.30 7.30 7.30	9 7.30 7.30 7.30 7.30 7.20 7.20 7.20 7.20 7.30	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

HILL HILL HILL	3 3 3	7.00 7.00 7.00	7.00 7.00 7.00	7.00 7.00 7.00	7.00 7.00	7.00 7.00	7.00 7.00
HILL HILL HILL HILL	4 4 4 4	7.00 7.00 7.00 7.00	7.00 7.00 7.00 7.10	7.00 7.00 7.00 7.00	7.00 7.00 7.00	7.00 7.00 7.00	7.00 7.00 7.00
HILL HILL HILL HILL	5 5 5	7.00 7.00 7.00 7.10	7.00 7.00 7.00 7.00 7.10	7.00 7.00 7.00 7.00	7.00 7.00 7.00	7.00 7.00 7.00	7.00 7.00 7.00
HILL HILL HILL HILL	6 6 6	7.00 7.00 7.00 7.10	7.00 7.00 7.00 7.20	7.00 7.00 7.00 7.00	7.00 7.00 7.00	7.00 7.00 7.00	7.00 7.00 7.10
HILL HILL HILL HILL	7 7 7 7	7.00 7.10 7.20 7.20	7.00 7.10 7.20 7.20	7.20 7.00 7.10 7.20 7.20	7.10 7.20 7.20	7.10 7.20 7.20	7.10 7.20 7.20
HILL HILL HILL HILL	8 8 8 8	7.00 7.20 7.30 7.30	7.00 7.20 7.30 7.30	7.10 7.30 7.30 7.30	7.10 7.30 7.30	7.10 7.30 7.30	7.20 7.30 7.30
HILL HILL HILL HILL	9 9 9	7.10 7.20 7.30 7.30	7.10 7.30 7.30 7.30	7.10 7.30 7.30 7.30	7.10 7.30 7.30	7.20 7.30 7.30	7.20 7.30 7.30
HILL HILL HILL HILL	10 10 10 10	7.20 7.30 7.30 7.30	7.20 7.30 7.30 7.30	7.20 7.30 7.30 7.30	7.20 7.30 7.30	7.20 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	11 11 11 11	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	12 12 12 12	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	13 13 13 13	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	14 14 14 14	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	15 15 15 15	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	16 16 16 16	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL	17 17 17	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30

XYINC 633535.32 21 2.84 4263885.16 21 5.36 ELEV 1 7.10 7.10 7.10 7.10 7.20 7.20 ELEV 1 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV 1 7.30 <td< th=""><th>GRIDCART GRIDCART</th><th>UCART3 UCART5</th><th>HILL HILL HILL HILL HILL HILL HILL HILL</th><th>17 18 18 18 18 19 19 19 19 20 20 20 20 20 20 20 20 20 20 20 21 21 21 21</th><th>7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30</th><th>7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30</th><th>7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30</th><th>7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30</th><th>7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30</th><th>7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30</th></td<>	GRIDCART GRIDCART	UCART3 UCART5	HILL HILL HILL HILL HILL HILL HILL HILL	17 18 18 18 18 19 19 19 19 20 20 20 20 20 20 20 20 20 20 20 21 21 21 21	7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	XYINC	63353	5.32 21 2	2.84 42638	88.16 21	5.36		
ELEV 1 7.20 7.20 7.30 7.			ELEV	1	7.10	7.10	7.10	7.10	7.20	7 20
LLBV 1 7.30 7.			ELEV FLEV	1	7.20	7.20	7.30	7.30	7.30	7.30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	1 1	7.30	7.30	7.30	7.30	7.30	7.30
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	2	7.10	7.30	7.30	7 00		
ELEV27.307.307.307.307.307.30ELEV27.307.307.307.307.307.30ELEV37.307.307.307.307.307.30ELEV37.307.307.307.307.307.30ELEV37.307.307.307.307.307.30ELEV37.307.307.307.307.307.30ELEV47.207.207.207.207.307.30ELEV47.307.307.307.307.307.30ELEV47.307.307.307.307.307.30ELEV47.307.307.307.307.307.30ELEV47.307.307.307.307.307.30ELEV47.307.307.307.307.307.30ELEV57.307.307.307.307.307.30ELEV57.307.307.307.307.307.30ELEV67.307.307.307.307.307.30ELEV67.307.307.307.307.307.30ELEV67.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV77.307.30			ELEV	2	7.20	7.30	7.30	7.20	7.20	7.20
ELEV27.307.307.307.307.307.307.30ELEV37.307.307.307.307.307.307.30ELEV37.307.307.307.307.307.30ELEV37.307.307.307.307.307.30ELEV47.207.207.207.207.307.30ELEV47.307.307.307.307.307.30ELEV47.307.307.307.307.307.30ELEV47.307.307.307.307.307.30ELEV47.307.307.307.307.307.30ELEV57.307.307.307.307.307.30ELEV57.307.307.307.307.307.30ELEV57.307.307.307.307.307.30ELEV67.307.307.307.307.307.30ELEV67.307.307.307.307.307.30ELEV67.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV7			ELEV	2	7.30	7.30	7.30	7.30	7.30	7.30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	2	7.30	7.30	7.30			7.50
LLEV3 7.30			ELEV	う 2	7.20	7,20	7.20	7.20	7.20	7.20
ELEV3 7.30			ELEV	3	7.30	7.30	7.30	7.30	7.30	7.30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	3	7.30	7.30	7.30	7.30	7.30	7.30
ELEV4 7.30 7.30 7.30 7.30 7.30 7.30 ELEV4 7.30 7.30 7.30 7.30 7.30 7.30 ELEV4 7.30 7.30 7.30 7.30 7.30 7.30 ELEV5 7.30 7.30 7.30 7.30 7.30 7.30 ELEV6 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV7 7.30 7.30 7.30 7.30 7.30 7.30 7.30 EL			ELEV	4	7.20	7.20	7.20	7.20	7 20	7 20
ELEV 4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV 4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV 5 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV 5 7.30			ELEV	4	7.30	7.30	7.30	7,30	7.30	7.30
LLEV4 7.30			ELEV PTPV	4	7.30	7.30	7.30	7.30	7.30	7.30
ELEV5 7.30			ELEV	4 5	7.30	7.30	7.30			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ELEV	5	7.30	7.30	7.30	7.30	7.30	7.30
ELEV5 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV6 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV6 7.30 7.30 7.30 7.30 7.30 7.30 ELEV7 7.30 7.30 7.30 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 7.30 7.30 ELEV9 7.30 7.30 7.30 7.30 7.30 7.30 ELEV9 7.30 7.30 7.30 7.30 7.30 7.30 ELEV10 7.30 7.30 </td <td></td> <td></td> <td>ELEV</td> <td>5</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td>			ELEV	5	7.30	7.30	7.30	7.30	7.30	7.30
ELEV6 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV6 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV7 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV9 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV9 <t< td=""><td></td><td></td><td>ELEV</td><td>5</td><td>7.30</td><td>7.30</td><td>7.30</td><td>1.30</td><td>7.30</td><td>7.30</td></t<>			ELEV	5	7.30	7.30	7.30	1.30	7.30	7.30
ELEV67.307.307.307.307.307.307.30ELEV67.307.307.307.307.307.307.30ELEV67.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV10			ELEV	6	7.30	7.30	7.30	7.30	7.30	7 20
LLEV6 7.30 7.30 7.30 7.30 7.30 7.30 ELEV6 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV7 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV8 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV9 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV9 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV9 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV9 7.30 7.30 7.30 7.30 <t< td=""><td></td><td></td><td>ELEV ETEV</td><td>6</td><td>7.30</td><td>7.30</td><td>7,30</td><td>7.30</td><td>7.30</td><td>7.30</td></t<>			ELEV ETEV	6	7.30	7.30	7,30	7.30	7.30	7.30
ELEV77.307.307.307.307.307.307.307.307.30ELEV77.307.307.307.307.307.307.307.307.30ELEV77.307.307.307.307.307.307.307.30ELEV77.307.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.			ellev Et.Ev	6	7.30	7.30	7.30	7.30	7.30	7.30
ELEV77.307.307.307.307.307.307.30ELEV77.307.307.307.307.307.307.307.30ELEV77.307.307.307.307.307.307.307.30ELEV87.307.307.307.307.307.307.307.30ELEV87.307.307.307.307.307.307.30ELEV87.307.307.307.307.307.307.30ELEV87.307.307.307.307.307.307.30ELEV87.307.307.307.307.307.307.30ELEV97.307.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30			ELEV	7	7.30	7.30	7.30			
ELEV77.307.307.307.307.307.30ELEV77.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30			ELEV	7	7.30	7.30	7.30	7.30	7.30	7.30
ELEV77.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30			ELEV	7	7.30	7.30	7.30	7.30	7.30	7.30
ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30			ELEV	7	7.30	7.30	7.30	7.50	7.30	7.30
ELEV87.307.307.307.307.307.307.30ELEV87.307.307.307.307.307.307.30ELEV87.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV1			ELEV	8	7,30	7.30	7.30	7.30	7.30	7 30
ELLEV87.307.307.307.307.307.307.30ELEV87.307.307.307.307.307.307.30ELEV97.307.307.307.307.307.307.30ELEV97.307.307.307.307.307.307.30ELEV97.307.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30FLEV107.307.307.307.307.307.30			ELEV FTFV	8	7.30	7.30	7.30	7.30	7.30	7.30
ELEV97.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30			ELEV	0 8	7.3U 7.30	7.30	7.30	7.30	7.30	7.30
ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.307.307.30ELEV97.307.307.307.307.307.307.30ELEV97.307.307.307.307.307.307.30ELEV107.307.307.307.307.307.307.30ELEV107.307.307.307.307.307.307.30			ELEV	9	7.30	7.3U 7 30	1.30	7 20		
ELEV97.307.307.307.307.307.30ELEV97.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30ELEV107.307.307.307.307.307.30FLEV107.307.307.307.307.30			ELEV	9	7.30	7.30	7.30	7.3U 7.30	7.30	7.30
ELEV97.307.307.30ELEV107.307.307.307.30ELEV107.307.307.307.30The second			ELEV	9	7.30	7.30	7.30	7.30	7.3U 7.20	7,30
ELEV 10 7.30 7.30 7.30 7.30 7.30 7.30 7.30 ELEV 10 7.30 7.30 7.30 7.30 7.30 7.30 7.30			ELEV	9	7.30	7.30	7.30		4.00	1.30
LLEV 10 7.30 7.30 7.30 7.30 7.30 7.30 7.30			ELEV Firen	10 10	7.30	7.30	7.30	7.30	7.30	7.30
			ълрА	τU	7.30	7.30	7.30	7.30	7.30	7.30

ELEV ELEV	7 10 7 10	7.30 7.30	7.30 7.30	7.30 7.30	7.30	7.30	7.30
ELEV	11	7.30	7.30	7.30	7.30	7.30	7 30
ELEV	⊥⊥ 11	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	11	7.30	7.30	7.30	7.30	7,30	7.30
ELEV	12	7.30	7.30	7.30	7 20		
ELEV	12	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	12	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	12	7.30	7.30	7.30		/.30	7.30
ELEV	13	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	13	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	13	7.30	7,30	7.30	7,30	7.30	7.30
ELEV	14	7.30	7.30	7.30	7 20		
ELEV	14	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	14	7.30 .	7.30	7.30	7.30	7.30	7,30
ELEV FT F17	14	7.30	7.30	.7.30		7.50	7.30
ELEV	15	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	15	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	15	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	16	7.30	7.30	7.30 7.30	7 20	7 00	_
ELEV	16	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	16	7.30	7.30	7.30	7.30	7.30	7.30
ецеv Et.EV	10 17	7.30	7.30	7.30			7.50
ELEV	⊥/ 17	7.30	7.30	7,30	7.30	7.30	7.30
ELEV	17	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	17	7.30	7.30	7.3U 7.30	7.30	7.30	7.30
ELEV	18	7.30	7.30	7.30	7 30	7 20	
ELEV	18	7.30	7.30	7.30	7.30	7.30	7.30
ET EV	18	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	10 19	7.30	7.30	7.30			
ELEV	19	7.30	7,30	7.30	7.30	7.30	7.30
ELEV	19	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	19	7.30	7.30	7.30	7.3Ų	7.30	7.30
ELEV	20	7.30	7.30	7.30	7.30	7 30	7 20
ELEV ELEV	20	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	20	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	20	7.30	7.30	7.30			
ELEV	$\frac{1}{21}$	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	21	7.30	7.30	7.30	7.30	7.30	7.30
ELEV	21	7.30	7.30	7.30	7.30	7.30	7.30
HILL	1	7.10	7.10	7.10	7.10	7 20	7 00
Н1144 ИТТТ	1	7.20	7.20	7.30	7.30	7.30	7.20
	⊥ 1	7.30	7.30	7.30	7,30	7.30	7.30
HILL	2	7.30	7.30	7.30			
HILL	2	7.20	7.10	7.10	7.20	7.20	7.20
HILL	2	7.30	7.30	7.30	7.30	7.30	7.30
HILL	2	7.30	7.30	7.30	1.50	1.30	7.30
HILL HITT	3	7.20	7.20	7.20	7.20	7.20	7 20
ունի ԱՐԴԴ	্র ব	7.30	7.30	7.30	7.30	7.30	7.30
HILL	3	7,3U 7,30	7.30	7,30	7.30	7.30	7.30
	*		1.30	/.30			

HILL HILL HILL HILL	4 4 4 4	7.20 7.30 7.30 7.30	7.20 7.30 7.30 7.30	7.20 7.30 7.30 7.30	7.20 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	5 5 5 5	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	6 6 6	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	7 7 7 7	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	8 8 8 8	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	9 9 9 9	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	10 10 10 10	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	11 11 11 11	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	12 12 12 12	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	13 13 13 13	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL	14 14 14 14	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	15 15 15 15	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	16 16 16 16	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL HILL HILL	17 17 17 17	7.30 7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30	7.30 7.30 7.30
HILL HILL	18 18	7.30 7.30	7.30 7.30	7.30 7.30	7.30 7.30	7.30 7.30	7.30 7.30

		HILL HILL	18 18	7.30	7.30	7.30	7.30	7.30	7.30
		HILL	19	7.30	7.30	7.30			
		HILL	19	7.30	7,30	7.30	7.30	7.30	7.30
		HILL	19	7.30	7.30	7.30	7.30	7.30	7.30
		HILL	19	7.30	7.30	7.30	7.30	7.30	7.30
		HILL	20	7.30	7.30	7.30	7 20		
		HILL	20	7.30	7.30	7.30	7.30	7.30	7.30
		HILL	20	7.30	7.30	7.30	7.30	7.30	7.30
		HILL	20	7.30	7.30	7.30	7.30	7.30	7.30
		HILL	21	7.30	7,30	7.30	7 20		
		HILL	21	7.30	7.30	7.30	7.30	7.30	7.30
		HILL	21	7.30	7.30	7,30	7.30	7.30	7.30
		HILL	21	7.30	7.30	7.30	7.30	7.30	7.30
GRIDCART	UCART5	END				1.00			
GRIDCART	UCART4	STA							
		XYINC	632255	.90 21	18.87 4263	1542 05 01	00.10		
		ELEV	1	6.00		5 00	23.16		
		ELEV	1	5.80	5.00 5.80	5.90	5.80	5.80	5.80
		ELEV	1	5.80	5 80	5.80	5.80	5.80	5.80
		ELEV	1	5 80	5.00	5.80	5.80	5.80	5.80
		ELEV	2	6 10	5,QU 6 10	5.80	_		
		ELEV	2	5 90	5.10 E 00	6.00	5.90	5.90	5.90
		ELEV	2	5 90	5.90	5.90	5.90	5.90	5.90
		ELEV	2	5 80	5.80	5.80	5.80	5.80	5.80
		ELEV	3	6 10	5,80	5.80			
		ELEV	ž	6 10	6.1U	6.10	6.10	6.10	6.10
		ELEV	2	6 10	6.10	6.10	6.10	6.10	6.10
		ELEV	2	6.10 6.10	5.90	5.80	5,80	5.80	5.80
		ELEV	.) Л	0.80 C 10	5.80	5.80			
		FT.FT	4 /	6.10 C 10	6.10	6.10	6.10	6.10	6.10
		C C C C C C C C C C C C C C C C C C C	4	6.10	6.10	6.10	6.10	6.10	6.10
		עמעניי דיד דיד	4	6.10	6.10	6.10	6.10	6.10	6.10
		다나다V 편T 면YZ	4	6.10	6.00	5,80	•		0.10
		ELE V	5	6,10	6.10	6.10	6.10	6.10	6 10
		E,LE,V 단도 EX7	5	6.10	6.10	6,10	6,10	6.10	6.10
		вцву Вт ви	5	6,10	6.10	6.10	6.10	6.10	6 10
		뜨그뜨?	5	6.10	6.10	6.00			0.10
		ELEV Dir Dir	6	6.10	6.10	6.10	6.10	6.10	6 10
		ELEV Di Di	6	6.10	6.10	6.10	6.10	6.10	6 10
		ELEV Da Dra	6	6.10	6.10	6.10	6.10	6 10	6 10
		ELEV Dr. Dr.	6	6.10	6.10	6.10		0.20	0.10
		ETEA	7	6.10	6.10	6.10	6.10	6 10	6 10
		ELEV	7	6.10	6.10	6.10	6.10	6 1 O	6.10
		LLEV	7	6.10	6,10	6.10	6.10	6 1 0	6.10
		ELEV	7	6.10	6.10	6,10	* • •••	0.10	0.10
		ELEV	8	6.10	6.10	6.10	6.10	6 10	C 10
		ELEV	8	6.10	6.10	6.10	6 10	6.10	6.10
		ELEV	8	6.10	6.10	6.10	6 10	6.10	6.10
		ELEV	8	6.10	6.10	6.10	0.10	0.10	6.10
		ELEV	9	6.10	6.10	6.10	6 10	C 10	6 4 6
		ELEV	9	6.10	6.10	6.10	6 10	0,1U 6 10	6.10
		ELEV	9	6,10	6.10	6 10	6 10	6.10	6.10
		ELEV	9	6.30	6.30	6 30	0.10	0.ZU	6.30
		ELEV	10	6.10	6.10	6.10	6 10		
		ELEV	10	6.30	6.30	6 30	0.IU	6.10	6.20
	i	ELEV	10	6.30	6.30	630	0.30	6,10	6.10
]	ELEV	10	6.40	6 40	6 40	0.30	6,30	6.40
]	ELEV	11	6.10	6 1 O	6 10	C 10	_	
			-	~• + V	0.10	0.10	6.10	6.20	6.30

ELEV	11	6.40	6.40	6.40	6.40	6 30	6 20
ELEV	11	6.40	6,40	6.40	6.40	6 40	6.30
ELEV	11	6.40	6.40	6.40	0.10	0,40	6.40
ELEV	12	6.10	6.10	6.10	6 20	E 10	<i>c</i> 10
ELEV	12	6.40	6.40	6 40	6.40	6.40	6.40
ELEV	12	6.40	6.40	6 40	6.40	6.40	6.40
ELEV	12	6.40	6 40	6.40	0.40	6.40	6.40
ELEV	13	6.10	6 10	6.40	<u> </u>		
ELEV	13	6 40	6 40	0.1U	6.20	6.40	6,40
ELEV	13	6 40	0.40 C 40	6.40	6.40	6.40	6.40
ELEV	13	6 40	0,40	6.40	6.40	6.40	6,40
ELEV	11	6 10	6.50	6.70			
ELEV	11	6.40	6.10	6.20	6.30	6.40	6.40
ET.EV	11	0.40	6.40	6.40	6.40	6.40	6.40
	11	6.40	6.40	6,40	6.40	6.40	6.40
	14	6.50	6.60	6.70			-
	15	6.10	6.10	6.30	6.40	6.40	6.40
ELEV DE DIT	15	6.40	6.40	6.40	6.40	6.40	6.40
ELEV	15	6.50	6.50	6.50	6.50	6.50	6 50
ELEV	15	6.70	6.70	6,70			0,00
LLEV	16	6.10	6.20	6.30	6.40	6.40	6 10
ELEV	16	6.40	6.40	6.40	6.40	6.40	6 50
ELEV	16	6.70	6.70	6.70	6.70	6 70	6.30
ELEV	16	6.70	6.70	6.80		0.70	0.70
ELEV	17	6.20	6.40	6.40	6 40	6 40	C 40
ELEV	17	6.40	6.40	6.40	6.40	6.40	6.40
ELEV	17	6.70	6.70	6 70	6 70	6.60	6.70
ELEV	17	6.70	6.80	7 00	0.70	6.70	6.70
ELEV	18	6.40	6 40	6.40	6 40	<i>c</i>	_
ELEV	18	6.40	6.40	0.40	6.40	6.40	6.40
ELEV	18	6 70	6.70	6.50	6.60	6.70	6.70
ELEV	18	6.90	7.00	6.70	6,70	6.70	6,70
ELEV	19	6,40	7.00	7.00			
ELEV	19	6.40	6.40	6,40	6,40	6.40	6.40
T T T T	10	6.40	6.40	6.50	6.70	6.70	6.70
	10	0,70	6.70	6.70	6,70	6.80	6,90
DI DI V	19	7.00	7.00	7.00			
	20	6.40	6.40	6.40	6.40	6.40	6.40
은 나는 V DT DIZ	. 20	6.40	6.40	6.50	6.70	6.70	6.70
BLEV DIDIZ	20	6.70	6.70	6.70	6.70	6.80	7.00
ELEV	20	7.00	7.00	7.00			
ELEV The second	21	6.40	6,40	6.40	6,40	6.40	6.40
ETEA	21	6.40	6.40	6.50	6.70	6.70	6 70
ELEV	21	6.70	6.70	6.70	6.70	6.80	7 00
ELEV	21	7.00	7.00	7.00		0,00	/.00
HILL	1	6.00	6.00	5,90	5.80	5 80	5 00
HILL	1	5.80	5.80	5.80	5 80	5 90	5,80
HILL	1	5,80	5,80	5.80	5,00	5.00	5.80
HILL	1	5,80	5.80	5 80	0.00	5.80	5.80
HILL	2	6.10	6.10	6.00	5 00	F 0.0	
HILL	2	5.90	5 90	5.00	5,90	5.90	5.90
HILL	2	5 90	5.90	5.90	5.90	5.90	5,90
HILL	2	5 80	5.00	5,8U 5,8U	5.80	5.80	5.80
HTLL	2	6 10	5.80	5,80			
НТТ.Т.	2	6 10	6.10 0.10	6.10	6.10	6.10	6.10
аадын Маталы	2	0.10	6.10	6.10	6.10	6.10	6.10
**************************************	ວ າ	0.10	5.90	5,80	5.80	5.80	5.80
₄₄⊥⊥⊿≟∣ ┖╡┲╴┲╴┲	ے ٭	5.80	5.80	5.80			
┶┶┶┶┶ ┶┎┯┯┯	4	6.10	6.10	6,10	6.10	6.10	6.10
ուկեր Առուբ	4	6.10	6.10	6.10	6.10	6.10	6.10
ուլերի	4	6.10	6,10	6.10	6.10	6.10	6.10

HILL	4	6.10	6.00	5,80			
HILL	5	6.10	6.10	6.10	6.10	6 10	6 10
HILL	5	6.10	6,10	6.10	6.10	6 10	6.10
HILL	5	6.10	6.10	6.10	6 10	0.10 6.10	6.10
HILL	5	6.10	6.10	6 00	0.10	0.10	6.IU
HILL	6	6.10	6.10	6 10	6 10	C 10	
HILL	6	6.10	6 10	6 10	6.10	6.1U	6.10
HILL	6	6.10	6 10	6 10	6.10	6.10	6.10
HILL	6	6 10	6 10	0.10	6.IU	6.10	6,10
HILL	7	6 1 O	6.10	6.10	C T C		
HTLL	, 7	6 10	6.10	6.1U	6.10	6.10	6.10
нтт.т.	7	6 10	6.10	6.10	6,10	6.10	6.10
HTT.T.	, רי	6 10	6.10	6.LU	6,10	6.10	6.10
1144) UTTT	0	0.10 C 10	6.10	6.10			
11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	0	6.10	6.10	6.10	6.10	6.10	6.10
	8	6.1U	6.10	6.10	6.10	6.10	6.10
птрт	8	6.10	6.10	6.10	6.10	6.10	6.10
ᄪᅸᇉᇈᇈ	8	6.10	6.10	6.10			· · · · •
ᆊᇿᄔᆈ	9	6.10	6.10	6.10	6.10	6.10	6.10
HILL	9	6.10	6.10	6.10	6.10	6.10	6 10
HILL	9	6.10	6.10	6.10	6.10	6.20	6 30
HILL	9	6.30	6.30	6.30		0120	0.50
HILL	10	6.10	6.10	6.10	6,10	6 10	6 20
HILL	10	6.30	6.30	6.30	6 30	6 10	6.20
HILL	10	6.30	6.30	6.30	6 30	6.20	6.10
HILL	10	6.40	6.40	6 40	0.00	0.30	6.40
HILL	11	6.10	6.10	6 10	6 10	6 00	
HILL	11	6.40	6 40	6 40	6.10	6.20	6.30
HILL	11	6 40	6 40	0.40 6.40	6.40	6.30	6.30
HILL	11	6 40	6 40	6.40	6,40	6.40	6.40
HTT.T.	12	6 10	6 10	6,40			
HTLL.	12	6.40	6.10	6.10	6.20	6.40	6.40
нттт	10	0.40	6.40	6.40	6,40	6.40	6.40
иттт иттт	10	0,4U C 40	6.40	6.40	6.40	6.40	6.40
	12	6.40	6.40	6,40			
11 T T T T	13	6.10	6,10	6.10	6,20	6.40	6.40
իլ է ի ի ի	13	6.40	6.40	6,40	6.40	6.40	6.40
HTTT	13	6.40	6.40	6.40	6.40	6.40	6.40
HILL	13	6.40	6.50	6.70			
HILL	14	6.10	6.10	6.20	6.30	6.40	6 40
HILL	14	6.40	6.40	6.40	6.40	6.40	6 40
HILL	14	6.40	6.40	6.40	6.40	640	6 40
HILL	14	6.50	6.60	6.70		0.10	0.40
HILL	15	6.10	6.10	6.30	6 40	6 10	6 40
HILL	15	6.40	6.40	6.40	6 40	6 40	6.40
HILL	15	6.50	6.50	6.50	6 50	6 50	6.40
HILL	15	6.70	6.70	6.70	0.00	6.50	6,50
HILL	16	6.10	6.20	6 30	6 40	C 10	<i>.</i>
HILL	16	6 40	6 4 0	6.40	6.40	6.40	6.40
HTTT	16	670	6 70	0.40	6.40	6.40	6.50
HTLL	16	6 70	6.70	6,70	6.70	6.70	6.70
HTT.T.	17	0.70	6.70	6.80			
лады. Пттт	17	0.20	6.40	6.40	6,40	6.40	6.40
	17	6.40	6.40	6.40	6.40	6.60	6.70
ները Մերեր	1/ 17	6,70	6.70	6.70	6.70	6.70	6.70
нтгг	17	6.70	6.80	7.00			
HILL	18	6.40	6.40	6.40	6.40	6,40	6.40
HILL	18	6.40	6.40	6.50	6.60	6.70	6.70
HILL	18	6.70	6.70	6.70	6.70	6.70	6 70
HILL	18	6,90	7.00	7.00			U • 7 U
HILL	19	6.40	6.40	6.40	6.40	6.40	6 40
						~ · · ·	V . H U

		HILL	19	6,40	6.40	6.50	6 70	C 70 ·	
		HILL	19	6.70	6.70	6.70	6.70	6.70	6.70
		HILL	19	7.00	7 00	7.00	6.70	6,80	6.90
		HILL	20	6.40	6 40	7.00	- · -		
		HILL	20	6 40	6.40	6.40	6.40	6.40	6.40
		HILL	20	6 70	0.40	6.50	6.70	6.70	6.70
		HTTT	20	7.00	6.70	6.70	6.70	6.80	7.00
		HTT.T.	21	7.00 6.40	7.00	7.00			
		нада ИТТ.Т.	21	6.40	6.40	6.40	6.40	6,40	6.40
			21	6.40	6.40	6.50	6.70	6.70	6.70
			· ZI	6.70	6.70	6.70	6.70	6,80	7 00
GRIDCART			21	7.00	7.00	7.00			/ • • • •
CRIDCAR	UCAR14 HONDEC	END							
GATDOARI	UCART6	STA							
		XYINC	63227	0.09 21	32.64 4262	2957.76 21	27.79		
		ELEV	1	4.60	4.60	4.60	4 90	4 00	1 0 0
		ELEV	1	4.90	5.00	5 20	5 20	4.90	4.90
		ELEV	1	5,50	5.50	5 50	5.20	5.20	5.20
		ELEV	1	5.60	5 80	5.00	5.50	5.50	5.50
		ELEV	2	4 60	4 60	0.80	4		
		ELEV	2	5 00	5.00	4,90	4.90	4.90	4.90
		ELEV	2	5.00	5.20	5.20	5.20	5.20	5.40
		ET.FV	2	5.50	5.50	5.50	5.50	5.50	5.60
			2	5.80	5.80	5.80			
		СЦСV Батрах	3	4,60	4.60	4.90	4.90	4.90	4 90
		라고라V 미지 미지	3	5.00	5.20	5.20	5.20	5.20	5 40
		ELEV DE DE D	3	5.50	5.50	5,50	5.50	5.60	5 90
		ELEV	3	5.80	5.80	5.80		0.00	0.00
		ELEV	4	4.60	4.60	4.90	4,90	1 90	1 00
		ELEV	4	5.00	5.20	5.20	5 20	9.90 6.40	4.90
		ELEV	4	5.50	5.50	5 50	5,20	5.40	5.50
		ELEV	4	5.80	5 80	5.20	5.50	5.60	5.80
		ELEV	5	4.60	0.00 4.60	1.00	4 00		
		ELEV	5	5 10	5 00	4,90	4.90	4.90	5.00
		ELEV	5	5 50	J.20 E EQ	5.20	5.20	5.40	5.50
		ELEV	5	5,00	5.50	5.50	5.50	5.70	5.80
			6	0.80	5.80	5.80			
		рі прілі Гі прілі	C C	4.60	4,60	4.90	4.90	4.90	5.00
		сцору Пт пти	6	5.20	5.20	5.20	5,20	5.40	5.50
		ELEV DI DI	6	5.50	5,50	5,50	5,50	5.80	5.80
		БЦЕV ——	6	5,80	5.80	5.80			0.00
		ELEV	7	4.60	4,60	4.90	4.90	4 90	E 10
		ELEV	7	5.20	5.20	5.20	5 30	4. 90	2.10
		ELEV	7	5.50	5.50	5 50	5,50	5.50	5.50
		ELEV	7	5.80	5.80	5 80	J./U	⊃.8Ú	5.80
		ELEV	8	4.60	4 70	1 00	4 00	_	
		ELEV	8	5.20	5 20	4,9V 5,00	4.90	5.10	5.20
		ELEV	Ř	5.50	5,20	5.20	5.40	5,50	5.50
		ELEV	8	5 20	2.3U	5.50	5.80	5.80	5.80
		ELEX7	0	J.80	5,80	5.80			
		ELEV ELEV	9	4.70	4.90	4.90	5.10	5.20	5.20
		ныцы V Бат тали	2	5.20	5,20	5.30	5.40	5.50	5.50
		шц≞.V Бладати	У	5.50	5,50	5.70	5.80	5,80	5 80
		GLEV Breve	у 10	5.80	5.80	5.90			~••• v
		ыцы Б	TO	4.90	4.90	5.00	5,20	5.20	5 20
		ELEV	10	5.20	5.20	5.40	5.50	5 50	J,ZU 5 50
		ELEV	10	5.50	5.50	5,80	5 80	5.00	5.50
		ELEV	10	5.80	5.80	6.00	0.00	5.80	5.80
		ELEV	11	4.90	5.00	5 20	5 00		
		ELEV	11	5.20	5 20		5.20	5.20	5.20
		ELEV	11	5 50	5 50	0,4U E 20	5,50	5.50	5.50
		ELEV		5 00	9.5U 5.00	5.80	5.80	5.80	5.80
		ana ana ana V	м, "L.	J,0U	5.80	6.00			

ELEV ELEV ELEV	12 12 12 12	5.00 5.20 5.50 5.80	5.20 5.40 5.60 5.80	5.20 5.50 5.80 6.00	5.20 5.50 5.80	5.20 5.50 5.80	5.20 5.50 5.80
ELEV ELEV ELEV ELEV	13 13 13 13	5.20 5.30 5.50 5.80	5.20 5.50 5.80 6.00	5.20 5.50 5.80 6.10	5.20 5.50 5.80	5.20 5.50 5.80	5.20 5.50 5.80
ELEV ELEV ELEV ELEV	14 14 14 14	5.20 5.30 5.50 5.80	5.20 5.50 5.80 6.00	5.20 5.50 5.80 6.10	5.20 5.50 5.80	5.20 5.50 5.80	5.20 5.50 5.80
ELEV ELEV ELEV ELEV	$15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\$	5.20 5.50 5.50 5.90	5.20 5.50 5.80 6.10	5.20 5.50 5.80 6.10	5.50 5.50 5.80	5.50 5.50 5.80	5.50 5.50 5.80
ELEV ELEV ELEV ELEV	16 16 16 16	5.50 5.50 5.80 5.90	5.50 5.50 5.80 6.10	5.50 5.50 5.80 6.10	5.50 5.50 5.80	5.50 5.50 5.80	5.50 5.50 5.80
ELEV ELEV ELEV ELEV	17 17 17 17	5.50 5.50 5.80 5.90	5.50 5.50 5.80 6.10	5.50 5.50 5.80 6.10	5.50 5.50 5.80	5.50 5.50 5.80	5.50 5.50 5.80
ELEV ELEV ELEV ELEV	18 18 18 18	5.50 5.50 5.80 6.10	5.50 5.50 5.80 6.10	5.50 5.50 5.80 6.10	5,50 5,50 5,80	5.50 5.50 5.80	5.50 5.70 5.90
ELEV ELEV ELEV ELEV	19 19 19 19	5,70 5,60 5,80 6,10	5.70 5.50 5.80 6.10	5.70 5.50 5.80 6.10	5.70 5.50 5.80	5.70 5.70 5.90	5.70 5.80 6.10
ELEV ELEV ELEV ELEV	20 20 20 20	5.80 5.80 5.80 6.10	5.80 5.70 5.80 6.10	5.80 5.70 5.80 6.10	5.80 5.70 5.80	5.80 5.80 6.00	5.80 5.80 6.10
ELEV ELEV ELEV ELEV	21 21 21 21	5.80 5.80 5.80 6.10	5.80 5.80 5.80 6.10	5.80 5.80 5.80 6.10	5.80 5.80 5.90	5.80 5.80 6.10	5.80 5.80 6.10
HILL HILL HILL HILL	1 1 1 1	4.60 4.90 5.50 5.60	4.60 5.00 5.50 5.80	4.60 5.20 5.50 5.80	4.90 5.20 5.50	4.90 5.20 5.50	4.90 5.20 5.50
HILL HILL HILL HILL	2 2 2 2	4.60 5.00 5.50 5.80	4,60 5,20 5,50 5,80	4.90 5.20 5.50 5.80	4.90 5.20 5.50	4.90 5.20 5.50	4.90 5.40 5.60
HILL HILL HILL HILL	3 3 3 3	4.60 5.00 5.50 5.80	4.60 5.20 5.50 5.80	4.90 5.20 5.50 5.80	4.90 5.20 5.50	4.90 5.20 5.60	4.90 5.40 5.80
HILL HILL HILL HILL	4 4 4 4	4.60 5.00 5.50 5.80	4.60 5.20 5.50 5.80	4.90 5.20 5.50	4.90 5.20 5.50	4.90 5.40 5.60	4.90 5.50 5.80
HILL HILL	5 5	4.60 5.10	4. 60 5.20	4.90 5.20	4.90 5.20	4.90 5.40	5.00 5.50

HILI HILI	5 5	5.50 5.80	5.50 5.80	5.50	5.50	5.70	5.80
HILI	- 6	4.60	4.60	4.90	1 90	4 0 0	_
HILL	- 6	5.20	5.20	5.20	4,90 5,20	4.90	5.00
HILL	, 6	5.50	5.50	5.50	5 50	5,4U 5,90	5.50
HILL	6	5.80	5.80	5.80	0.00	5.80	5.80
HILL	7	4.60	4.60	4.90	4.90	4 90	F 10
HILL	7	5.20	5.20	5.20	5.30	4.90 5.50	5.10
HILL	7	5.50	5.50	5.50	5.70	5.00	5.50
HILL	7	5.80	5.80	5.80	0.70	5.00	5,80
HILL	8	4.60	4.70	4.90	4.90	5 10	5 00
HILL	8	5.20	5.20	5.20	5.40	5.50	5.20
HILL	8	5,50	5.50	5.50	5.80	5.80	5.50
비누가가	8	5.80	5.80	5.80		0.00	5.80
HILL	9	4.70	4.90	4.90	5.10	5 20	5 20
нцыц turrr	9	5.20	5.20	5.30	5.40	5 50	5.20
다고고고	9	5.50	5.50	5.70	5.80	5.80	5.50
11	9	5.80	5.80	5.90		0.00	5.00
ПТТТ ПТТТТ	10	4.90	4.90	5.00	5.20	5.20	5 20
다. 다. 다. 다	10	5.20	5.20	5.40	5.50	5.50	5.20
ուել ու	10	5.50	5.50	5,80	5.80	5.80	5.80
ուլե Մեւ հ	10	5,80	5.80	6.00		- - - - - -	9.00
նեւեյն ԱԴԴԴԴ	1.4 1.7	4.90	5.00	5.20	5.20	5.20	5 20
ուկի Սեեւ	4.1 1 1	5.20	5.20	5.40	5,50	5.50	5 50
пттт Пттт	1 1 1 1	5.50	5.50	5.80	5,80	5.80	5 80
ГІ 4 ЦІ ГІТТТ	10	5.80	5.80	6.00			0,00
пттт пттт	10	5.00	5.20	5.20	5,20	5.20	5.20
11고 11고	10	5.20	5.40	5.50	5.50	5.50	5.50
ᆘᅶᆁᆈ	10	5.50	5.60	5.80	5.80	5.80	5.80
цттт	12	5.80	5.80	6.00			0.00
цттт цттт	10	5.20	5.20	5.20	5.20	5.20	5.20
ллти Глади	10	5.30	5.50	5.50	5,50	5.50	5.50
цттт ПТТТТ	10	5,50	5.80	5.80	5.80	5.80	5,80
11 - 41 L) LI - T T T	1.0 1.4	5.80	6.00	6.10			
ттті ТТТТЦ	1.4 1.4	5.20	5.20	5.20	5.20	5.20	5.20
нацы НТТ.Т.	14	5.30	5.50	5.50	5.50	5,50	5.50
на ца ИТТ.Т.	11	5.50	5.80	5.80	5.80	5.80	5.80
HTLL	15	5.80	6,00	6.10			
НТТ.т.	15	5.20	5.20	5.20	5.50	5.50	5.50
HTT.T.	15	5,50	5,50	5.50	5.50	5.50	5.50
HTLL	15	5.00	5.80	5.80	5,80	5.80	5.80
HILL	16	5.50	6.LU 6.LU	6.10			
HILL	16	5.50	5.5U 5.50	5.50	5.50	5.50	5.50
HILL	16	5.30	5.50	5.50	5.50	5.50	5.50
HILL	16	5 90	5.80	5.80	5.80	5.80	5,80
HILL	17	5 50	5.IU 5.50	6.10			
HILL	17	5 50	5.50	5.50	5,50	5.50	5.50
HILL	17	5 80	5.50	5.50	5.50	5.50	5.50
HILL	17	5.00	5.80	5.80	5.80	5,80	5.80
HILL	18	5.50	6,10	6.10			
HILT	18	5 50	5.50	5,50	5.50	5.50	5.50
HILL	18	5.90	5,50	5.50	5.50	5.50	5.70
HILL	18	5.00 6 10	5,8U 6 10	5.80	5.80	5.80	5.90
HILT	-9 19	5 70	0.1U	6.10			
HILL	19	5 60	5.70	5.70	5.70	5.70	5.70
HILL	19	5 80	J.JU 5 00	5.50	5.50	5.70	5.80
HILL	19	6.10	5.00	5.80	5.80	5.90	6.10
		0.10	0.LU	0.LU			

	HILL	20	5.80	5.80	5.80	5,80	5 80	5 80
	HILL	20	5.80	5.70	5.70	5.70	5 80	5.00
	HILL	20	5.80	5.80	5.80	5.80	6.00	5.80
	HILL	20	6.10	6.10	6.10	0.00	0.00	0.10
	HILL	21	5.80	5.80	5.80	5 80	5 00	F 00
	HILL	21	5.80	5.80	5.80	5 80	5,00	5.80
	HILL	21	5.80	5.80	5 80	5 90	5.80	5.80
	HILL	21	6.10	6.10	6 10	5.90	0.IU	6.10
GRIDCART UCART6	END			0+10	0.10			
GRIDCART UCART7	STA							
	XYINC	631968	3.65 21 7	70.54 4264	377 17 01	20 50		
	ELEV	1	6.40	6 40	6 10	39.36	C 1 0	_ .
	ELEV	1	6.10	6 20	6 30	6.20	6.10	6.10
	ELEV	1	7.60	7 30	7 20	6.50	7.40	7.60
	ELEV	1	7 30	7.30	7.30	7.30	7.30	7.30
	ELEV	2	6 40	6 40	7.30	C 40		
	ELEV	2	6 30	6.40	6,4U C FO	6.40	6.30	6.30
	ELEV	2	7 60	0.40	6.50	6.90	7.60	7.60
	ELEV	2	7.00	7.30	7.30	7.30	7.30	7.30
	ELEV ELEV	2	6.20	7.30	7.30			
		່ ວ	6.30	6.40	6.40	6.40	6.40	6.40
	Енцер V Патарал	3	6.40	6.70	6.70	7.30	7.60	7.60
	ELEV BR DY	3	7.60	7.30	7.30	7.30	7.30	7.30
	ELEV	3	7.30	7.50	7.60			
	ELEV	4	6.30	6.40	6.40	6.40	6.50	6,60
	ELEV	4	6.70	6.70	6.90	7.30	7.60	7.60
	ELEV	4	7.60	7.30	7.30	7.30	7.30	7 30
	ELEV	4	7,30	7.50	7,60			1.00
	ELEV	5	6,10	6.40	6.40	6.40	6.70	6 70
	ELEV	5	6.70	6.90	7.00	7.30	7 60	7.60
	ELEV	5	7.60	7.30	7.30	7.30	7 30	7.00
	ELEV	5	7.30	7.60	7.60	/.00	/.50	7.30
	ELEV	6	6.10	6.40	6 40	6 10	6 70	
	ELEV	6	6.70	7.00	7 20	7.60	0.70	6.70
	ELEV	6	7.60	7 30	7.20	7.00	7.60	7.60
	ELEV	6	7.40	7.60	7.50	1.50	7.30	7.30
	ELEV	7	6 10	6 30	- 7.00 E 40	C 40	6 7 6	_
	ELEV	7	7 00	7 00	7 20	6.40	6.70	6.70
	ELEV	7	7,00	7.00	7.30	7.60	7.60	7.60
	ELEV	7	7.00	7.50	7.30	7.30	7.30	7.30
	ELEV	8	6 10	7.60	7.60			
	FLEV	0	7 00	0.1U 7 10	6.30	6.40	6.70	6.70
		0	7.00	7.10	7.30	7.60	7.60	7.60
	FT.FV	0 0	7.60	7.30	7.30	7.30	7.30	7.30
	ע מוד מיז ע מוד מיז	0	7.50	7.60	7,60			
	다 다 다 다 가 다 다 다 다 가	3	0.10	6.10	6.10	6.40	6.70	6.90
	ELEV DI EV	9	7.00	7.10	7.30	7.60	7.60	7.60
	탄고 mar	9	7,60	7.30	7.30	7.30	7,30	7.30
	ELEV	9	7.60	7.60	7.60			
	ELEV	10	6.10	6.10	6.10	6.40	6.70	6.90
	ELEV	10	7.00	7.30	7.40	7.60	7.60	7 60
	ELEV	10	7.60	7.30	7.30	7.30	7.30	7 30
	ELEV	10	7.60	7.60	7.60			1.00
	ELEV	11	6.10	6.10	6.20	6.40	6 70	7 00
	ELEV	11	7.00	7.30	7.50	7 60	7 60	7.00
	ELEV	11	7.60	7.30	7 30	7.00		7.60
	ELEV	11	7.60	7.60	7 60	1.50	1.30	1.30
	ELEV	12	6.10	6 10	6 40	6 60	C 70	
	ELEV	12	7.00	7 30	7 60		6.70	7.00
	ELEV	12	7 60	7.30	7.00	/.60	7.60	7.60
	۷ التاریپ اسم	ын. <i>К</i> а	1.00	1.30	1.30	7.30	7.30	7.30

ELEV	12	7.60	7.60	7.60			
ELEV	13	6.20	6.40	6.40	6 70	6 70	7 00
ELEV	13	7.30	7.30	7.60	7 60	7.0	7.00
ELEV	13	7.60	7.50	7 30	7.00	7.60	7.60
ELEV	13	7.60	7.60	7.50	7.50	1.30	7.30
ELEV	14	6.40	6 40	6 50	C 70	C D A	
ELEV	14	7 30	7 30	0.00	6.70	6.80	7.00
ELEV	14	7,50	7.50	7.60	7.60	7.60	7.60
ELEV	1/	7.00	7.50	7.30	7.30	7.30	7.30
	15	7.60	7.60	7.60			
עמעמ גים דים	10	6.40	6.40	6,70	6.70	7.00	7.00
비니다.V 고도 고도?	15	7.30	7.40	7,60	7.60	7,60	7.60
ELEV ELEV	15	7.60	7.50	7.30	7.30	7.30	7 50
ELEV	15	7.60	7,60	7.60			
ELEV	16	6.40	6.50	6.70	6.70	7 00	7 00
ELEV	16	7.30	7.40	7,60	7.60	7 60	7.00
ELEV	16	7.60	7,50	7.30	7 30	7.00	7.60
ELEV	16	7.60	7.60	7 60	7.00	7.50	7.60
ELEV	17	6.40	6.70	6 70	6 00	7 00	
ELEV	17	7.30	7 40	7.60	0.00	7.00	7.00
ELEV	17	7 60	7.50	7.00	7.60	7.60	7.60
ELEV	17	7.60	7.50	7.30	7.30	7.30	7.60
ELEV	10	7.00 E 40	7.60	7.60			
	10	0.40	6.70	6.70	7.00	7.00	7.00
	10	7.30	7.40	7.60	7.60	7.60	7.60
LLLV 티프 Brit	18	7.60	7.50	7.30	7.30	7.30	7.60
ELEV	18	7.60	7.60	7.60			
ELEV	19	6,40	6.70	6.70	7.00	7 00	7 20
ELEV	19	7.30	7.60	7.60	7.60	7 60	7.20
ELEV	19	7,60	7.50	7.30	7 30	7,00	7.60
ELEV	19	7.60	7.60	7 60	7.50	7.30	7.60
ELEV	20	6.70	6 70	6 70	7 00		
ELEV	20	7 30	7.60	0.70	7,00	7.00	7.20
ELEV	20	7.60	7.00	7.60	7.60	7.60	7.60
ELEV	20	7.00	7.50	7.30	7.30	7.30	7.60
FLEV	20	7.00	7.60	7.60			
עבות אינגע זייד דיד	21	0.70	6.70	6.80	7,00	7.00	7.30
DT DY7	41	7.30	7.60	7.60	7.60	7.60	7.60
	21	7,60	7.50	7,30	7.30	7.30	7.60
臣卫尼人	21	7,60	7,60	7.60			
HILL	1	6.40	6.40	6.40	6.20	6.10	6 10
HILL	1	6.10	6,20	6,30	6.50	7 40	7 60
HILL	1	7.60	7.30	7.30	7 30	7 30	7.00
HILL	1	7.30	7.30	7 30	1.00	7.50	7.30
HILL	2	6.40	6 40	6 40	E 10	6 90	
HILL	2	6 30	6.40	0.40	6.40	6.30	6.30
HTLL	2	7 60	7 20	0.00	6.90	7.60	7.60
HTT.T.	2	7.00	7.30	7.30	7,30	7.30	7.30
	2	7.30	7.30	7.30			
┇┇┻╴┇╴┯ ┎	3	6.30	6.40	6.40	6.40	6.40	6.40
HTTT	3	6.40	6.70	6.70	7.30	7.60	7.60
ℍ⅃⅃⅃⅃	3	7.60	7.30	7.30	7.30	7.30	7 30
HILL	3	7.30	7.50	7.60			
HILL	4	6.30	6,40	6.40	6 40	6 50	6 60
HILL	4	6.70	6.70	6.90	7 30	7 60	6.60
HILL	4	7.60	7.30	7 30	7.00	7.00	7.60
HILL	4	7 30	7 50	7.00	1.30	1.30	7.30
HTTT	5	6 10	7,00	7.60			
чици. Шттт	J	0.10	0.40	6.40	6.40	6.70	6.70
1144 1777 7 7	5 F	6.70	6.90	7.00	7.30	7.60	7,60
HTTT	5	7.60	7.30	7.30	7.30	7,30	7.30
HILL	5	7.30	7.60	7.60			
HILL	6	6.10	6.40	6.40	6.40	6 70	6 70
					V V	\vee \cdot $/$ \vee	0./U

HILL HILL HILL	6 6	6.70 7.60 7.40	7.00 7.30 7.60	7.20 7.30 7.60	7.60 7.30	7.60 7.30	7.60 7.30
HILL HILL HILL	7 7 7	6.10 7.00 7.60	6.30 7.00 7.30	6.40 7.30 7.30	6.40 7.60 7.30	6.70 7.60 7.30	6.70 7.60
HILL HILL HILL	7 8 8	7.40 6.10 7.00	7.60 6.10 7.10	7.60 6.30 7.30	6.40 7.60	6.70 7.60	6.70 7.60
HILL HILL HILL	8 8 9	7.60 7.50	7.30 7.60	7.30 7.60	7.30	7.30	7.30
HILL HILL HILL	9 9 9	7.00 7.60 7.60	8.10 7.10 7.30 7.60	6.10 7.30 7.30 7.60	6.40 7.60 7.30	6.70 7.60 7.30	6.90 7.60 7.30
HILL HILL HILL	10 10 10 10	6.10 7.00 7.60 7.60	6.10 7.30 7.30 7.60	6.10 7.40 7.30 7.60	6.40 7.60 7.30	6.70 7.60 7.30	6.90 7.60 7.30
HILL HILL HILL HILL	11 11 11 11	6.10 7.00 7.60 7.60	6.10 7.30 7.30 7.60	6.20 7.50 7.30	6.40 7.60 7.30	6.70 7.60 7.30	7.00 7.60 7.30
HILL HILL HILL HILL	12 12 12 12	6.10 7.00 7.60 7.60	6.10 7.30 7.30 7.60	6.40 7.60 7.30 7.60	6.60 7.60 7.30	6.70 7.60 7.30	7.00 7.60 7.30
HILL HILL HILL HILL	13 13 13 13	6.20 7.30 7.60 7.60	6.40 7.30 7.50 7.60	6.40 7.60 7.30	6.70 7.60 7.30	6.70 7.60 7.30	7.00 7.60 7.30
HILL HILL HILL HILL	14 14 14 14	6.40 7,30 7.60 7.60	6.40 7.30 7.50 7.60	7.60 7.60 7.30	6.70 7.60 7.30	6.80 7.60 7.30	7.00 7.60 7.30
HILL HILL HILL HILL	15 15 15 15	6.40 7.30 7.60 7.60	6.40 7.40 7.50 7.60	7.60 7.60 7.30	6.70 7.60 7.30	7.00 7.60 7.30	7.00 7.60 7.50
HILL HILL HILL HILL	16 16 16 16	6.40 7.30 7.60 7.60	6.50 7.40 7.50 7.60	7.60 7.60 7.30 7.60	6.70 7.60 7.30	7.00 7.60 7.30	7.00 7.60 7.60
HILL HILL HILL HILL	17 17 17 17	6.40 7.30 7.60 7.60	6.70 7.40 7.50 7.60	6.70 7.60 7.30 7.60	6.80 7.60 7.30	7.00 7.60 7.30	7.00 7.60 7.60
HILL HILL HILL HILL	18 18 18 18	6.40 7.30 7.60 7.60	6.70 7.40 7.50 7.60	6.70 7.60 7.30 7.60	7.00 7.60 7.30	7.00 7.60 7.30	7.00 7.60 7.60
HILL HILL HILL HILL	19 19 19 19	6.40 7.30 7.60 7.60	6.70 7.60 7.50 7.60	6.70 7.60 7.30	7.00 7.60 7.30	7.00 7.60 7.30	7.20 7.60 7.60
HILL HILL HILL	20 20 20	6.70 7.30 7.60	6.70 7.60 7.50	6.70 7.60 7.30	7.00 7.60 7.30	7.00 7.60 7.30	7.20 7.60 7.60

	HILL	20	7.60	7.60	7 60			
	HILL	21	6.70	6 70	6 90	7 00		
	HILL	21	7.30	7 60	0.80	7.00	7.00	7.30
	HILL	21	7 60	7.00	7.60	7.60	7.60	7.60
	HTLL.	21	7.60	7.50	7.30	7.30	7.30	7.60
GRIDCART UCART	7 END		/.00	1.60	7.60			
GRIDCART UCART	8 9 7 2							
	XYTNO	60050						
		1	20.10 21	6.79 4264	154.56 21	10.52		
		1	7.30	7.30	7.30	7.30	7.30	7.30
		1	7.30	7.30	7.30	7.30	7.30	7.30
	습니다.V 고객 고객	1	7.30	7.30	7.30	7.40	7.40	7 50
	ELEV BL DV	1	7.60	7.60	7,60			1.00
	드니드 V 코그 코그	2	7.30	7.30	7.30	7.30	7.30	7 30
	ELEV	2	7.30	7.30	7.30	7.30	7.30	7 30
	ELEV	2	7.30	7.30	7.30	7.40	7.40	7.50
	ELEV	2	7.60	7.60	7.60			/.50
	ELEV	3	7.30	7.30	7.30	7.30	7 30	7 20
	ELEV	3	7.30	7.30	7,30	7.30	7 30	7.30
	ELEV	3	7.30	7.30	7.30	7.40	7.30	7.30
	ELEV	3	7.60	7.60	7.60	7.40	7.40	7.50
	ELEV	4	7.30	7.30	7.30	7 30	7 20	F a a
	ELEV	4	7.30	7.30	7 30	7.30	7.30	7.30
	ELEV	4	7.30	7.30	7,30	7.30	7.30	7.30
	ELEV	4	7.60	7 60	7.50	7.40	7.50	7.50
	ELEV	5	7.30	7 30	7.00	7 20		
	ELEV	5	7.30	7,30	7.30	7.30	7.30	7.30
	ELEV	5	7 40	7.30	7.30	7.30	7.30	7.40
	FLEV	5	7 60	7.40	7,40	7.50	7.50	7.60
	ELEV	6	7,00	7.00	7.60			
	ELEV	é	7.00	7.30	7.30	7.30	7.30	7.30
	ELEV	é é	7.50	7.30	7.30	7.30	7.30	7.40
	ELEV	6	7,40	7,50	7.50	7.60	7.60	7.60
	ELEV ELEV	7	7.60	7.60	7.60			
		/ **>	7.30	7.30	7.30	7.30	7,30	7.30
		7	7.30	7,30	7.30	7.30	7.30	7.40
	ET EX	7	7,50	7.50	7,60	7.60	7.60	7.60
	сце V вт вуд	/	7.60	7,60	7.60			
	E, LE, V Dis ensis	8	7.30	7.30	7.30	7.30	7.30	7.30
	ELEV DI DI	8 Â	7.30	7.30	7.30	7.30	7.30	7.40
	ELEV	8	7.50	7.50	7.60	7.60	7.60	7 60
	ELEV	8	7.60	7.60	7.60			1.00
	ELEV	9	7.30	7.30	7.30	7.30	7 30	7 20
	ELEV	9	7.30	7.30	7,30	7.30	7.30	7.30
	ELEV	9	7.50	7.50	7.60	7.60	7.50	7.40
	ELEV	9	7.60	7.60	7.60		1.00	7,60
	ELEV	10	7.30	7,30	7.30	7 30	7 20	7 00
	ELEV	10	7.30	7.30	7.30	7 30	7.30	7.30
	ELEV	10	7.50	7.50	7 60	7.30	7.30	7.40
	ELEV	10	7.60	7 60	7,00	7.60	7.60	7.60
	ELEV	11	7.30	7 20	7 20	7 20	-	_
	ELEV	11	7.30	7.30	7.30	7.30	7.30	7.30
	ELEV	11	7 50	7.50	7.30	7.30	7.30	7.40
	ELEV	11	7 60	7.00	7.60	7.60	7.60	7.60
	ELEV	12	7.00	7.60	/.60	_		
	ELEV ELEV	10	7.30	7.30	7.30	7.30	7.30	7.30
	·····································	エム 1 つ	7.30	7.30	7.30	7,30	7.30	7.40
	ццц V Пот пот	10	7.50	7.50	7.60	7.60	7.60	7.60
	et et	12	1.60	7.60	7,60			. *
	ыцыы Парали	10	7.30	7,30	7.30	7.30	7,30	7.30
	凸上凸人	τζ	7,30	7.30	7.30	7.30	7.30	7.40

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ELEV ELEV	13 13	7.50 7.60	7.50 7.60	7.60 7.60	7.60	7.60	7.60
heat 14 7.30	ELEV	14	7.30	7.30	7.30	7.30	7.30	7 20
LLEV 14 7.50 7.60 7.60 7.60 7.60 7.60 7.60 BLEV 15 7.30<	BLEV DIRV	14	7.30	7.30	7.30	7.30	7.30	7.30
LELV 14 7.60 7.60 7.60 7.60 7.60 7.30 7	ELEV ET EV	1.4	7.50	7.50	7.60	7.60	7.60	7.40
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	뜨냬뜨V 단도단V	14	7.60	7.60	7.60			/.00
LIN 13 7.30 7.30 7.30 7.30 7.30 7.40 ELEV 15 7.60 </td <td>V ALLA RIEV</td> <td>10 15</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td>	V ALLA RIEV	10 15	7.30	7.30	7.30	7.30	7.30	7.30
LLEV137.507.607.607.607.607.607.60ELEV167.307.307.307.307.307.307.307.30ELEV167.307.307.307.307.307.307.307.30ELEV167.607.607.607.607.607.607.60ELEV167.607.607.607.607.607.60ELEV177.307.307.307.307.307.307.30ELEV177.607.607.607.607.607.60ELEV177.607.607.607.607.607.60ELEV187.307.307.307.307.307.30ELEV187.507.507.607.607.607.60ELEV187.507.307.307.307.307.30ELEV197.307.307.307.307.307.30ELEV197.507.607.607.607.60ELEV197.307.307.307.307.307.30ELEV207.507.507.607.607.607.60ELEV207.507.507.607.607.607.60ELEV217.307.307.307.307.307.30ELEV217.607.607.607	ET.EV	15	7.30	7.30	7.30	7.30	7.30	7.40
Letw 16 7.30	ELEV	15	7.50	7.50	7,60	7,60	7.60	7.60
LEW 16 7.30 7	ELEV	16	7.80	7.60	7.60			
ELEV 16 7.30 7.30 7.30 7.30 7.40 ELEV 16 7.60<	ELEV	16	7.30	7.30	7.30	7.30	7.30	7.30
ELEV167.607.6	ELEV	16	7.50	7.50	7.30	7.30	7.30	7.40
ELEV 17 7.30 7.40 ELEV 17 7.60<	ELEV	16	7,60	7.50	7.60	7.60	7.60	7.60
ELEV177.307.3	ELEV	17	7,30	7.30	7.00	7 20		
ELEV177.507.507.607.607.607.607.60ELEV177.607.607.607.607.607.60ELEV187.307.307.307.307.307.30ELEV187.507.507.607.607.607.60ELEV187.507.507.607.607.607.60ELEV197.307.307.307.307.307.30ELEV197.507.507.607.607.607.60ELEV197.507.507.607.607.607.60ELEV197.507.507.607.307.307.30ELEV207.307.307.307.307.307.30ELEV207.507.507.607.607.607.60ELEV207.507.507.607.607.607.60ELEV217.307.307.307.307.307.30ELEV217.507.507.607.607.607.60ELEV217.507.507.607.607.607.60ELEV217.507.507.607.307.307.30ELEV217.607.607.607.607.60HILL17.307.307.307.307.30HILL17.307.30	ELEV	17	7.30	7.30	7.30	7.30	7.30	7.30
ELEV177.607.607.607.607.607.607.60ELEV187.307.307.307.307.307.307.30ELEV187.507.507.607.607.607.60ELEV187.607.607.607.607.607.60ELEV197.307.307.307.307.307.30ELEV197.507.507.607.607.607.60ELEV197.507.507.607.607.607.60ELEV197.507.507.607.607.607.60ELEV207.307.307.307.307.307.30ELEV207.507.507.607.607.607.60ELEV207.507.507.607.607.607.60ELEV217.307.307.307.307.307.30ELEV217.507.507.607.607.607.60ELEV217.307.307.307.307.307.30ELEV217.507.507.607.607.607.60HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL <td>ELEV</td> <td>17</td> <td>7.50</td> <td>7.50</td> <td>7.60</td> <td>7.30</td> <td>7.30</td> <td>7.40</td>	ELEV	17	7.50	7.50	7.60	7.30	7.30	7.40
ELEV187.307.307.307.307.307.307.307.30ELEV187.507.507.607.607.607.607.60ELEV187.607.607.607.607.607.60ELEV197.307.307.307.307.307.30ELEV197.507.507.607.607.607.60ELEV197.507.507.607.607.607.60ELEV197.607.607.607.607.607.60ELEV207.307.307.307.307.307.30ELEV207.607.607.607.607.607.60ELEV207.607.607.607.607.607.60ELEV217.307.307.307.307.307.30ELEV217.507.507.607.607.607.60ELEV217.507.507.607.607.607.60ELEV217.507.507.607.607.607.60HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30 <tr<< td=""><td>ELEV</td><td>17</td><td>7.60</td><td>7.60</td><td>7.60</td><td>7.00</td><td>7.60</td><td>7,60</td></tr<<>	ELEV	17	7.60	7.60	7.60	7.00	7.60	7,60
ELEV187.307.307.307.307.307.307.307.40ELEV187.607.607.607.607.607.607.60ELEV197.307.307.307.307.307.307.30ELEV197.307.307.307.307.307.307.30ELEV197.607.607.607.607.607.60ELEV197.607.607.607.607.607.60ELEV207.307.307.307.307.307.30ELEV207.507.607.607.607.60ELEV207.507.507.607.607.60ELEV207.507.507.607.607.60ELEV207.507.507.607.607.60ELEV217.307.307.307.307.30ELEV217.307.307.307.307.30ELEV217.607.607.607.607.60HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL1 </td <td>ELEV</td> <td>18</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7 30</td> <td>7 20</td>	ELEV	18	7.30	7.30	7.30	7.30	7 30	7 20
ELEV187.507.507.607.607.607.607.60ELEV187.607.307.307.307.307.307.30ELEV197.307.307.307.307.307.307.30ELEV197.507.507.607.607.607.60ELEV197.607.607.607.607.607.60ELEV207.307.307.307.307.307.30ELEV207.507.507.607.607.607.60ELEV207.507.507.607.607.607.60ELEV207.507.507.607.607.607.60ELEV217.307.307.307.307.307.30ELEV217.307.307.307.307.307.30ELEV217.507.607.607.607.60ELEV217.507.507.607.607.60HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL27.307.307.307.307.30HILL27.307.307.307.307.30 <td>ELEV</td> <td>18</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td>	ELEV	18	7.30	7.30	7.30	7.30	7.30	7.30
ELEV187.607.607.607.607.607.607.60ELEV197.307.307.307.307.307.307.30ELEV197.507.507.607.607.607.60ELEV197.607.607.607.607.607.60ELEV207.307.307.307.307.307.30ELEV207.507.507.607.607.607.60ELEV207.507.507.607.607.607.60ELEV207.607.607.607.607.607.60ELEV217.307.307.307.307.307.30ELEV217.607.607.607.607.607.60ELEV217.607.607.607.607.607.60ELEV217.607.607.607.307.307.30HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL27.307.307.307.307.307.30HILL <t< td=""><td>ELEV</td><td>18</td><td>7,50</td><td>7.50</td><td>7.60</td><td>7.60</td><td>7.50</td><td>7.40</td></t<>	ELEV	18	7,50	7.50	7.60	7.60	7.50	7.40
ELEV19 7.30 <td>ELEV</td> <td>18</td> <td>7.60</td> <td>7.60</td> <td>7.60</td> <td></td> <td>1.00</td> <td>7.60</td>	ELEV	18	7.60	7.60	7.60		1.00	7.60
ELEV197.307.307.307.307.307.307.40ELEV197.607.607.607.607.607.607.607.60ELEV207.307.307.307.307.307.307.307.307.30ELEV207.307.307.307.307.307.307.307.307.307.30ELEV207.507.507.607.607.607.607.607.607.60ELEV207.507.507.607.607.607.607.607.60ELEV217.307.307.307.307.307.307.30ELEV217.507.507.607.607.607.60ELEV217.507.507.607.607.607.60ELEV217.507.507.607.307.307.30ELEV217.607.607.607.607.607.60FILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL27.307.307.307.307.307.30HILL27.307.307.307.307.307.30HILL27.307.307.307.307.307.30HILL37.307.307	ELEV BI DV	19	7.30	7.30	7.30	7.30	7.30	7 30
LLEV197.507.507.607.607.607.607.60ELEV197.607.607.607.607.607.607.60ELEV207.307.307.307.307.307.307.30ELEV207.507.507.607.607.607.607.60ELEV207.507.507.607.607.607.607.60ELEV207.607.607.607.607.607.607.60ELEV217.307.307.307.307.307.307.30ELEV217.507.507.607.607.607.60FLEV217.507.507.607.607.607.60HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL27.307.307.307.307.307.30HILL27.307.307.307.307.307.30HILL27.307.307.307.307.307.30HILL27.307.307.307.307.307.30HILL37.307.307.307.307.307.30HILL37.307.307.30<	ELEV BI DV	19	7.30	7.30	7.30	7.30	7.30	7.30
LLEV197.607.607.607.607.60ELEV207.307.307.307.307.307.30ELEV207.507.507.607.607.607.60ELEV207.607.607.607.607.607.60ELEV207.607.607.607.607.607.60ELEV217.307.307.307.307.307.30ELEV217.607.607.607.607.60FLEV217.607.607.607.607.60HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL17.307.307.307.307.30HILL27.307.307.307.307.30HILL27.307.307.307.307.30HILL27.307.307.307.307.30HILL27.307.307.307.307.30HILL27.307.307.307.307.30HILL27.307.307.307.307.30HILL37.307.307.307.307.30HILL3 </td <td>出し出い</td> <td>19</td> <td>7.50</td> <td>7.50</td> <td>7.60</td> <td>7.60</td> <td>7.60</td> <td>7.60</td>	出し出い	19	7.50	7.50	7.60	7.60	7.60	7.60
LLEV20 7.30 <td>러니브V 먼도 먼저</td> <td>19</td> <td>7.60</td> <td>7.60</td> <td>7.60</td> <td></td> <td></td> <td>7100</td>	러니브V 먼도 먼저	19	7.60	7.60	7.60			7100
LLEV207.307.307.307.307.307.40ELEV207.507.507.607.607.607.607.60ELEV217.307.307.307.307.307.307.30ELEV217.507.507.607.607.607.60ELEV217.507.507.607.607.607.60ELEV217.507.507.607.607.607.60ELEV217.607.607.607.607.607.60HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL17.607.607.607.607.60HILL27.307.307.307.307.30HILL27.307.307.307.307.30HILL27.307.307.307.307.30HILL27.607.607.607.60HILL27.307.307.307.307.30HILL37.307.307.307.307.30HILL37.307.307.307.307.30HILL37.307.307.307.307.30HILL37.307.307.307.307.30HILL47.307.30	сцсv стсv	20	7.30	7.30	7.30	7.30	7.30	7.30
LLLV207.507.507.607.607.607.607.60ELEV217.307.307.307.307.307.307.307.30ELEV217.507.507.607.607.607.607.60ELEV217.507.507.607.607.607.60ELEV217.607.607.607.607.607.60ELEV217.607.607.607.607.607.60HILL17.307.307.307.307.307.30HILL17.307.307.307.307.307.30HILL17.607.607.607.607.60HILL27.307.307.307.307.307.30HILL27.307.307.307.307.307.30HILL27.607.607.607.407.407.50HILL27.307.307.307.307.307.30HILL27.607.607.607.607.60HILL37.307.307.307.307.30HILL37.307.307.307.307.30HILL37.307.307.307.307.30HILL37.307.307.307.307.30HILL47.307.307.307.30 <td>ET.EV</td> <td>20</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.30</td> <td>7.40</td>	ET.EV	20	7.30	7.30	7.30	7.30	7.30	7.40
LLEV20 7.60 7.60 7.60 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.40 ELEV21 7.50 7.50 7.60 7.60 7.60 7.60 7.60 7.60 ELEV21 7.60 7.60 7.60 7.60 7.60 7.60 7.60 HILL1 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL1 7.30 7.30 7.30 7.30 7.30 7.30 HILL1 7.60 7.60 7.60 7.60 7.60 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 HILL4 7.30 7.30 7.30 7.30 7.30 7.30 HILL4 7.30 7.30 <td>ETEV</td> <td>20</td> <td>7.50</td> <td>7.50</td> <td>7.60</td> <td>7.60</td> <td>7.60</td> <td>7.60</td>	ETEV	20	7.50	7.50	7.60	7.60	7.60	7.60
ELEV21 7.30 <td>ELEV</td> <td>20</td> <td>7.60</td> <td>7.60</td> <td>7.60</td> <td></td> <td></td> <td></td>	ELEV	20	7.60	7.60	7.60			
ELEV21 7.30 7.30 7.30 7.30 7.30 7.40 ELEV21 7.60 7.60 7.60 7.60 7.60 7.60 7.60 HILL1 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL1 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL1 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL1 7.60 7.60 7.60 7.40 7.40 7.50 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.60 7.60 7.60 7.40 7.40 7.50 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL4 7.30 7.30 7.30 7.30 7.30 7.30 7.30	ELEV	21	7.30	7.30	7.30	7.30	7.30	7.30
ELEV 21 7.60 7	ELEV	21	7.50	7.30	7.30	7.30	7.30	7.40
HILL1 7.30	ELEV	21	7.60	7,50	7.60	7.60	7.60	7.60
HILL 1 7.30 <t< td=""><td>HILL</td><td>1</td><td>7.30</td><td>7,00</td><td>7.60</td><td>7 00</td><td></td><td></td></t<>	HILL	1	7.30	7,00	7.60	7 00		
HILL1 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL1 7.60 7.60 7.60 7.40 7.40 7.50 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.30 7.30 7.30 7.30 7.30 HILL2 7.60 7.60 7.60 7.40 7.40 HILL3 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 HILL3 7.60 7.60 7.60 7.40 7.50 HILL4 7.30 7.30 7.30 7.30 7.30 HILL4 7.30 7.30 7.30 7.30 7.30 HILL4 7.60 7.60 7.60 7.60 7.60 HILL5 7.30 7.30 7.30 7.30 7.30 HILL5 7.40 7.40 7.50 7.50 7.60 HILL5 7.60 7.60 7.60 7.60 7.60 HILL6 7.30 7.30 7.30 7.30 7.30 <	HILL	1	7.30	7.30	7.30	7.30	7.30	7.30
HILL1 7.60 7.60 7.40 7.40 7.40 7.50 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.60 7.60 7.60 7.40 7.40 7.50 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 HILL3 7.60 7.60 7.60 7.40 7.50 HILL3 7.30 7.30 7.30 7.30 7.30 HILL4 7.60 7.60 7.60 7.60 7.60 HILL5 7.40 7.40 7.40 7.50 7.50 HILL5 7.60 7.60 7.30 7.30 7.30 HILL5 7.60 7.60 7.60 7.60 7.60 HILL6 7.40 7.50 7.50 7.60 <	HILL	1	7.30	7.30	7.30	7.30	7.30	7.30
HILL2 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.60 7.60 7.60 7.40 7.40 7.50 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 HILL3 7.60 7.60 7.60 7.40 7.40 7.50 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 HILL4 7.60 7.60 7.60 7.60 7.60 7.60 HILL5 7.30 7.30 7.30 7.30 7.30 7.30 HILL5 7.60 7.60 7.60 7.60 7.60 7.60 HILL6 7.30 7.30 7.30 7.30 7.30 7.30 HILL6 7.60 7.60 7.60 <td>HILL</td> <td>1</td> <td>7.60</td> <td>7.60</td> <td>7.60</td> <td>/0</td> <td>7.40</td> <td>7.50</td>	HILL	1	7.60	7.60	7.60	/0	7.40	7.50
HILL2 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.30 7.30 7.30 7.30 7.30 7.30 HILL2 7.60 7.60 7.60 7.60 7.40 7.40 7.50 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL3 7.60 7.60 7.60 7.60 7.30 7.30 7.30 7.30 HILL4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL5 7.40 7.40 7.40 7.50 7.50 7.60 7.60 HILL5 7.40 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL5 7.60 7.60 7.60 7.60 7.60 7.60 7.60 HILL6 <t< td=""><td>HILL</td><td>2</td><td>7.30</td><td>7,30</td><td>7.30</td><td>7.30</td><td>7 20</td><td>7 20</td></t<>	HILL	2	7.30	7,30	7.30	7.30	7 20	7 20
HILL 2 7.30 7.30 7.30 7.40 7.40 7.30 HILL 2 7.60 7.60 7.60 7.60 7.60 HILL 3 7.30 7.30 7.30 7.30 7.30 7.30 HILL 3 7.60 7.60 7.60 7.40 7.40 7.50 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.60 7.60 7.60 7.60 7.50 7.50 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.60 7.60 7.	HILL	2	7.30	7.30	7.30	7.30	7.30	7.30
HILL 2 7.60 7.60 7.60 7.60 7.30 7.30 7.30 7.30 HILL 3 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 3 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 3 7.30 7.30 7.30 7.30 7.30 7.30 HILL 3 7.60 7.60 7.60 7.40 7.40 7.50 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.60 7.60 7.60 7.60 7.60 7.60 7.60 7.60 HILL 5 7.60 7.60 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.40	HILL	2	7.30	7.30	7,30	7.40	7 40	7.30
HILL37.307.307.307.307.307.307.30HILL37.307.307.307.307.307.307.30HILL37.307.307.307.307.307.30HILL37.607.607.607.407.407.50HILL47.307.307.307.307.307.30HILL47.307.307.307.307.307.30HILL47.307.307.307.307.307.30HILL47.307.307.307.307.307.30HILL47.607.607.607.607.507.50HILL57.307.307.307.307.307.30HILL57.307.307.307.307.307.30HILL57.607.607.607.607.60HILL57.607.607.607.607.60HILL57.607.607.607.307.30HILL67.307.307.307.307.307.30HILL67.407.507.507.607.607.60HILL67.607.607.607.607.607.60HILL67.607.607.607.607.607.60HILL67.607.607.607	HILL	2	7.60	7.60	7,60		7,40	7.00
HILL 3 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 3 7.30 7.30 7.30 7.30 7.30 7.30 HILL 3 7.60 7.60 7.60 7.40 7.40 7.50 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.60 7.60 7.60 7.30 7.30 7.30 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.60 7.60 7.60 7.60 7.60 7.60 HILL 5 7.60 7.	HILL	3	7.30	7.30	7,30	7,30	7.30	7 30
HILL 3 7.30 7.30 7.30 7.40 7.40 7.50 HILL 3 7.60 7.60 7.60 7.60 7.60 7.50 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.60 7.60 7.60 7.40 7.50 7.50 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.30 7.30 7.30 7.30 7.30 7.40 HILL 5 7.60 7.60 7.60 7.60 7.60 HILL 5 7.60 7.30 7.30 7.30 7.30 7.30 HILL 6 7.30 7.30 7.	HLLL IIII	3	7.30	7.30	7.30	7.30	7.30	7.30
HILL 3 7.60 7.60 7.60 7.60 7.60 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.60 7.60 7.60 7.40 7.50 7.50 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.40 7.40 7.40 7.50 7.50 7.60 HILL 5 7.60 7.60 7.60 7.30 7.30 7.30 7.30 HILL 6 7.30 7.30 7.30 7.30 7.30 7.40 HILL 6 7.40 7.50 7.	лттт лттт	3	7.30	7.30	7.30	7.40	7.40	7.50
HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.30 7.30 7.30 7.30 7.30 7.30 HILL 4 7.60 7.60 7.60 7.40 7.50 7.50 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.40 7.40 7.40 7.50 7.60 7.60 HILL 5 7.60 7.60 7.60 7.30 7.30 7.30 7.30 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.40 7.50 7.50 7.60 7.60 7.40 <td< td=""><td>դենը Աեւ</td><td>3</td><td>7.60</td><td>7.60</td><td>7.60</td><td></td><td></td><td></td></td<>	դենը Աեւ	3	7.60	7.60	7.60			
HILL 4 7.30 7.50 7.50 7.50 7.50 7.50 7.50 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.40 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.40 7.40 7.40 7.40 7.40 7.40 <t< td=""><td>ուկե Աттт</td><td>4</td><td>7.30</td><td>7.30</td><td>7.30</td><td>7.30</td><td>7.30</td><td>7.30</td></t<>	ուկե Աттт	4	7.30	7.30	7.30	7.30	7.30	7.30
HILL 4 7.30 7.30 7.30 7.40 7.50 7.50 HILL 4 7.60 7.60 7.60 7.60 7.30 7.30 7.50 7.50 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.30 7.30 7.30 7.30 7.30 7.40 HILL 5 7.40 7.40 7.40 7.50 7.50 7.60 HILL 5 7.60 7.60 7.60 7.60 7.60 7.60 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.40 7.50 7.50 7.60 7.60 7.40 HILL 6 7.40 7.50 7.50 7.60 7.60 7.60 HILL 6 7.60 7.60 7.60 7.60 7.60 7.60 HILL <td< td=""><td>нттт птттт</td><td>4</td><td>7.30</td><td>7.30</td><td>7.30</td><td>7.30</td><td>7.30</td><td>7.30</td></td<>	нттт птттт	4	7.30	7.30	7.30	7.30	7.30	7.30
HILL 4 7.60 7.60 7.60 HILL 5 7.30 7.30 7.30 7.30 7.30 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.30 7.30 7.30 7.30 7.30 7.40 HILL 5 7.60 7.60 7.60 7.50 7.50 7.60 HILL 5 7.60 7.60 7.60 7.30 7.30 7.30 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.40 7.50 7.60 7.60 7.40 HILL 6 7.40 7.50 7.60 7.60 7.60 HILL 6 7.60 7.60 7.60 7.60 7.60	нтт.т.	4	7.30	7.30	7.30	7.40	7.50	7.50
HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.30 7.30 7.30 7.30 7.30 7.30 HILL 5 7.40 7.40 7.40 7.50 7.50 7.40 HILL 5 7.60 7.60 7.60 7.50 7.50 7.60 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.40 7.50 7.50 7.60 7.40 HILL 6 7.40 7.50 7.60 7.60 7.60 HILL 6 7.60 7.60 7.60 7.60 7.60 7.60	HTTT	т т	7.60	7.60	7.60			
HILL 5 7.40 7.30 7.30 7.30 7.40 HILL 5 7.40 7.40 7.40 7.50 7.50 7.60 HILL 5 7.60 7.60 7.60 7.60 7.30 7.30 7.60 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.40 7.50 7.50 7.60 7.40 HILL 6 7.40 7.50 7.50 7.60 7.60 HILL 6 7.60 7.60 7.60 7.60 7.60 HILL 6 7.60 7.60 7.60 7.60 7.60	HILL	5	7.30	7.30	7.30	7.30	7.30	7.30
HILL 5 7.60 7.40 7.40 7.50 7.50 7.60 HILL 5 7.60 7.60 7.30 7.30 7.30 7.30 HILL 6 7.30 7.30 7.30 7.30 7.30 7.30 HILL 6 7.40 7.50 7.60 7.60 7.60 7.60 HILL 6 7.40 7.50 7.50 7.60 7.60 7.60 HILL 6 7.60 7.60 7.60 7.60 7.60 7.60	HILL	5	7.30	7.30	7.30	7.30	7.30	7.40
HILL67.307.307.307.307.30HILL67.307.307.307.307.30HILL67.407.507.507.607.60HILL67.607.607.607.60	HILL	5	7.60	7.40 7.60	7,40	7.50	7.50	7,60
HILL67.307.307.307.307.30HILL67.407.507.507.607.607.60HILL67.607.607.607.607.60	HILL	6	7.30	7.00	7.00	7	-	
HILL 6 7.40 7.50 7.50 7.60 7.40 HILL 6 7.60 7.60 7.60 7.60 7.60	HILL	6	7.30	7,30	7.30	7.30	7.30	7.30
HILL 6 7.60 7.60 7.60 7.60 7.60	HILL	6	7.40	7.50	7.50	7.30	7.30	7.40
	HILL	6	7.60	7.60	7.60	1.00	7.60	7.60

HILL	7	7.30	7.30	7.30	7.30	7.30	7 30
нтц нтц	7	7.30	7.30	7.30	7.30	7.30	7.40
HILL	7	7.50	7.50	7.60	7.60	7.60	7.60
HILL	8	7.30	7.60	7.60			
HILL	8	7.30	7.30	7.30	7.30	7.30	7.30
HILL	8	7.50	7.50	7.60	7.30	7.30	7.40
HILL	8	7.60	7.60	7.60	/.00	7.60	7.60
HILL	9	7.30	7.30	7.30	7.30	7.30	7 30
НТ ГТ ПТТТТ	9	7.30	7.30	7.30	7.30	7.30	7.40
пттт. ытт.т.	9	7.50	7.50	7.60	7.60	7.60	7.60
HILL	10	7.60	7.60	7.60			
HILL	10	7.30	7.30	7.30	7.30	7.30	7.30
HILL	10	7.50	7.50	7.30	7.30	7.30	7.40
HILL	10	7.60	7.60	7.60	7.60	7.60	7.60
HILL	11	7.30	7.30	7.30	7 30	7 20	7 00
HILL	11	7.30	7.30	7.30	7.30	7.30	7.30
HILL	11	7.50	7.50	7.60	7.60	7.60	7.40
նեն ԱՐԴԴ	10	7.60	7.60	7.60			1.00
нтілі Нтілі	12	7.30	7.30	7.30	7.30	7.30	7.30
HILL	12	7.30	7.30	7.30	7.30	7.30	7.40
HILL	12	7.60	7.50	7.60	7.60	7.60	7.60
HILL	13	7.30	7.30	7.80	7 20	7 00	
HILL	13	7.30	7.30	7.30	7.30	7.30	7.30
HILL	13	7.50	7.50	7.60	7.60	7.30	7,40
HILL	13	7.60	7.60	7.60		/.00	7.00
ելիր Առեւս	14	7.30	7.30	7.30	7.30	7.30	7.30
ПТТТ.Т.	⊥4 1 /	7.30	7.30	7.30	7.30	7.30	7.40
HILL	14	7.50	7.50	7.60	7.60	7.60	7.60
HILL	15	7.30	7.80	7.60	7 00		
HILL	15	7.30	7.30	7.30	7.30	7.30	7.30
HILL	15	7.50	7.50	7.60	7.30	7.30	7.40
HILL	15	7.60	7.60	7.60	7+00	7.60	7.60
HILL	16	7.30	7.30	7.30	7.30	7.30	7 30
HILL	16	7.30	7.30	7.30	7.30	7.30	7.40
нцыц чттт	16	7.50	7.50	7.60	7.60	7.60	7.60
нтърд НТТ.Т.	17	7,60	7.60	7.60			
HILL	17	7.30	7.30	7,30	7.30	7.30	7.30
HILL	17	7.50	7.50	7.30	7.30	7.30	7.40
HILL	17	7.60	7.60	7.60	7.60	7.60	7.60
HILL	18	7.30	7.30	7.30	7 30	7 20	7 00
HILL	18	7.30	7.30	7.30	7.30	7.30	7.30
HILL	18	7.50	7.50	7,60	7.60	7.60	7,40
НІЦЦ ПТТТ	18	7.60	7.60	7.60			1.00
БІЛТТ ПТТТ	19	7.30	7.30	7.30	7.30	7.30	7.30
нацын ИТТЛ.	19	7.30	7.30	7.30	7.30	7.30	7.40
нтць	19 19	7.50	7,50	7.60	7.60	7.60	7,60
HILL	20	7.30	7.60	7.60			
HILL	20	7.30	7.30	7.3U 7.30	7.30	7.30	7.30
HILL	20	7.50	7,50	7.60	7.30	7.30	7.40
HILL	20	7.60	7.60	7.60	1.00	1.00	1.60
HILL	21	7.30	7.30	7.30	7.30	7.30	7 २०
наць	21	7.30	7.30	7.30	7.30	7,30	7,40

			HILL	21	7.50	7.5	0 7	. 60	7 60		7 60
	~~ ~~ ~~ ~		HILL	21	7,60	7.6	0 7	. 60	7.00		7.60
	GRIDCART	UCART8	END				,	. 00			
**	DESCRREC	11 11 11 11									
	DISCCART	6335	567.35	4263881	.86	7 28	7 20				
	DISCCART	6335	568.14	4263873	1 92	7.20	7.20				
**	DESCRREC	"UCART(5" "Red	ceptors de	norst	7.20	7.20				
	DISCCART	6336	520.46	4263655			Unitorr	n Carte	esian (Grid"	
	DISCCART	6336	516.14	4263660	- 00 - 21	7.01	7.01				
	DISCCART	6336	520 16	4262660	1.31	7.01	7.01				
	DISCCART	6336	11 82	4262600	• > 1	7.01	7.01				
	DISCCART	6336	16 1A	4203002	.94	7.01	7.01				
	DISCCART	6336	20 16	4203002	.94	7.01	7.01				
	DISCCART	6336	07 50	4203082	.94	7.01	7.01				
	DISCCART	6336	11 00	4263696	.57	7.01	7.01				
	DISCCART	6336	16 11	4263696	.57	7.01	7.01				
	DISCOART	6226	10.14 20.4c	4263696	.57	7.01	7.01				
	DISCOART	6336	20,46	4263696	.57	7.01	7,01				
	DISCOARI	6336	03.18	4263710	.20	7.01	7.01				
	DISCOART	6336	07.50	4263710	.20	7.01	7.01				
	DISCOART	6336	11.82	4263710	.20	7.01	7.01				
	DISCCART	6336	16.14	4263710	.20	7.01	7.01				
	DISCCART	6336;	20,46	4263710.	.20	7,01	7.01				
	DISCCART	6335:	98.86	4263723.	.83	7.01	7.01				
	DISCCART	63360	03.18	4263723.	.83	7.01	7.01				
	DISCCART	6336(07.50	4263723.	.83	7.01	7 01				
	DISCCART	6336:	11.82	4263723.	.83	7.01	7 01				
	DISCCART	63363	16.14	4263723.	83	7.01	7.01				
J	DISCCART	63362	20.46	4263723.	83	7.01	7.01				
]	DISCCART	63359	94.54	4263737	46	7 01	7.01				
]	DISCCART	63359	8.86	4263737	16	7.01	7.01				
I	DISCCART	63360)3.18	4263737	16	7.01	7.UL				
Ι	DISCCART	63360	7.50	4263737	40 16	7.01	7.01				
I	DISCCART	63361	1 82	1262727	40	7.01 7.01	7.01				
I	DISCCART	63361	6 11	4060707.	40	7.01	7.01				
Г	DISCCART	63363	0 16	4000707	46	7.01	7.01				
Т		63350	0.40	4263737.	46	7.01	7.01				
- r		63350		4263751.	09	7.01	7.01				
r		600009	4.54	4263751.	09	7.01	7.01				
ייי ר		03309	0,00	4263751.	09	7.01	7.01				
т. Г	TECCART	63360	3.18	4263751.	09	7.01	7.01				
بل ح		63360	7.50	4263751.	09	7.01	7.01				
L	JISCCART JISCCART	63361	1.82	4263751.	09	7.01	7.01				
L	TAGGINE	63361	6.14	4263751.	09	7.01	7.01				
L D	TSCCART	63362	0.46	4263751.0	09	7.01	7,01				
L L	ISCCART	63358	5.90	4263764.	72	7.01	7.01				
D	ISCCART	63359	0.22	4263764.	72	7.01	7.01				
D	ISCCART	63359	4.54	4263764,	72	7.01	7.01				
D	ISCCART	63359	8.86	4263764.	72	7.01	7 01				
D	ISCCART	63360:	3.18	4263764.7	72	7.01	7.01				
D	ISCCART	63360	7.50	4263764.7	72	7.01	7 01				
D	ISCCART	63361:	1.82	4263764	72	7.01	7 01				
D	ISCCART	633610	5.14	4263764	12	7 01	7.01				
D	ISCCART	633620	0.46	4263764	12	7 01	7.01				
D	ISCCART	633581	L.58	4263778 3	سم ۲	7.01	7.UL 7.01				
D	ISCCART	63358	5.90	4263778 9	25	7.01	7.UL				
D	ISCCART	633590	22	4263770.3	,) E	/ • V⊥ ⊐_ 0 4	7.01				
D	ISCCART	63350/	і 5л	1262770 0	90 16	7.UI	/.01				
 D_	ISCCART	222200	2 9 C	4203//0.3	5	/.01	7.01				
ים. הי		6000000).00) 10	4263778.3	5	7.01	7.01				
υ.	LOCCART	033603	•тд	4263778.3	5	7.01	7.01				

7.60

DISCCART	633607.50	4263778.35	7.01	7 01
DISCCART	633611.82	4263778.35	7.01	7.01
DISCCART	633616.14	4263778.35	7.01	7.01
DISCCART	633620.46	4263778.35	7.01	7.01
DISCCART	633577.26	4263791.98	7.01	7.01
DISCCART	633581.58	4263791.98	7,01	7.01
DISCCART	633585.90	4263791.98	7.01	7.01
DISCCART	633590.22	4263791.98	7.01	7.01
DISCCART	633594.54	4263791.98	7.01	7 01
DISCCART	633598.86	4263791.98	7.01	7.01
DISCCART	633603.18	4263791.98	7.01	7.01
DISCCART	633607.50	4263791.98	7.01	7.01
DISCCART	633611.82	4263791.98	7.01	7.01
DISCCART	633616.14	4263791.98	7.01	7.01
DISCCART	633620.46	4263791.98	7.01	7.01
DISCCART	633572.94	4263805.61	7.01	7.01
DISCCART	633577.26	4263805.61	7.01	7.01
DISCCART	633581.58	4263805.61	7.01	7.01
DISCCART	633585.90	4263805.61	7.01	7.01
DISCCART	633590.22	4263805.61	7.01	7.01
DISCCART	633594.54	4263805.61	7.01	7.01
DISCCART	633598,86	4263805.61	7.01	7.01
DISCCART	633603.18	4263805.61	7.01	7.01
DISCCART	633607.50	4263805.61	7.01	7.01
DISCCART	633611.82	4263805.61	7.01	7.01
DISCCART	633616.14	4263805.61	7,01	7.01
DISCCART	633620.46	4263805.61	7.01	7.01
DISCCART	633568.62	4263819.24	7.01	7.01
DISCCART	633572.94	4263819.24	7.01	7.01
DISCCART	633577.26	4263819.24	7.01	7.01
DISCOART	633581,58	4263819.24	7.01	7.01
DISCCART	633585,90	4263819.24	7.01	7.01
DISCCART	633590.22	4263819.24	7.01	7.01
DISCCART	633594.54	4263819.24	7.01	7.01
DISCOARI	633598,86	4263819.24	7.01	7.01
DISCOART	633603.18	4263819.24	7.01	7.01
DISCOART	632611 00	4263819,24	7.01	7.01
DISCCART	633616 14	4263819,24	7.01	7.01
DISCCART	633620 46	4263819,24	7.01	7.01
DISCCART	633564 20	4203819,24	7.01	7.01
DISCCART	633568 62	4203032.07	7.01	7.01
DISCCART	633572 04	4200002,87	7.01	7.01
DISCCART	633577 26	4203032.07	7.01	7.01
DISCCART	633581 58	4203032,07	7.01	7.01
DISCCART	633585 90	4202022.07	7.01	7.01
DISCCART	633590 22	4203032.07	7.01	7.01
DISCCART	633594 54	4263832.87	7.01	7.01 7.01
DISCCART	633598.86	4263832 87	7.01	7.01 7.00
DISCCART	633603.18	4263832 87	7.02	7.02
DISCCART	633607.50	4263832 87	7.04	7.04
DISCCART	633611 82	4263832 87	7,00	7.05
DISCCART	633616 14	4263830 07	7,00	7.00
DISCCART	633620 46	4263832 87	7.07	7.07
DISCCART	633559.98	4263846 50	1.U0 7.01	7.08
DISCCART	633564.30	4263846 50	7.UL 7.01	7.UL
DISCCART	633568.62	4263846 50	7.01 7.01	7.UL
DISCCART	633572.94	4263846 50	7.01	7.UL 7.01
			7.UL	/•UT

DISCCART	633577.26	4263846.50	7.01	7.01
DISCCART	633581.58	4263846.50	7.01	7.01
DISCCART	633585.90	4263846.50	7.01	7.01
DISCCART	633590.22	4263846.50	7.01	7.01
DISCCART	633594.54	4263846.50	7.02	7.02
DISCCART	633598.86	4263846.50	7.05	7.05
DISCCART	633603.18	4263846.50	7.08	7.08
DISCCART	633607.50	4263846.50	7.11	7.11
DISCCART	633611.82	4263846.50	7.14	7.14
DISCCART	633616.14	4263846.50	7.17	7.17
DISCCART	633620.46	4263846.50	7.20	7.20
DISCCART	633555.66	4263860.13	7.05	7.05
DISCCART	633559.98	4263860.13	7.06	7.06
DISCCART	633564.30	4263860.13	7.06	7.06
DISCCART	633568.62	4263860.13	7.06	7.06
DISCCART	633572,94	4263860.13	7.06	7.06
DISCOART	633577,26	4263860.13	7.06	7.06
DISCCART	633501.38	4263860.13	7.06	7.06
DISCCART	633500 22	4263860.13	7.06	7.06
DISCCART	633590.22	4203860.13	7.06	7.06
DISCCART	633598 86	4263060.13	7.07	7.07
DISCCART	633603 18	4263860 13	7.10	7.1Q
DISCCART	633607.50	4263860.13	/ 14 7 10	7 10
DISCCART	633611.82	4263860 13	7.10	7.10
DISCCART	633616.14	4263860 13	7.21	7.21
DISCCART	633620.46	4263860.13	7 29	7.20
DISCCART	633551.34	4263873.76	7.12	7 12
DISCCART	633555.66	4263873.76	7.15	7.15
DISCCART	633559.98	4263873.76	7.18	7.18
DISCCART	633564.30	4263873.76	7.20	7.20
DISCCART	633568.62	4263873.76	7.20	7.20
DISCCART	633572.94	4263873.76	7,20	7.20
DISCCART	633577.26	4263873.76	7.20	7.20
DISCCART	633581.58	4263873.76	7,20	7.20
DISCCART	633585.90	4263873.76	7.20	7,20
DISCCART	633590.22	4263873.76	7.20	7.20
DISCCART	633594.54	4263873.76	7.20	7.20
DISCCART	633598,86	4263873.76	7,22	7.22
DISCCART	633603,18	4263873.76	7.24	7.24
DISCCART	633607.50	4263873.76	7.25	7.25
DISCCART	633611.82	4263873.76	7.27	7.27
DISCCART	633616.14	4263873.76	7.29	7.29
DISCOART	633620,46	4263873.76	7,30	7.30
DISCOART	633534,06	4263887.39	7.04	7.04
DISCOVUL	633538,38	4263887.39	7.08	7.08
DISCOARI	633342.70	4263887.39	7.12	7.12
DISCOART	633547.UZ	4263887.39	7.16	7.16
DISCOARI	600001.34 600555 CC	4263887.39	7.20	7.20
DISCOART	633550 00	4263887.39	7.24	7.24
DISCCART	633561 20	4203007.39	7.28	7.28
DISCCART	633568 601	4403001.39 1263007 20	7.32	7.32
DISCCART	633572 9/	4403007.39 1263887 20	7.32	7.32
DISCCART	633577 26	4263887 20	1.32	1.32
DISCCART	633581 58	4263887 20	1.34	7.32
DISCCART	633585 90	4263887 30	1.32 7 30	7.32
DISCCART	633590 22	4263887 20	7.20	1.32
			1 • 24	1.04

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DISCCART
             633594.54
                      4263887.39
                                   7.32
                                         7.32
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   DISCCART
                                  7.32
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   DISCCART
           633603.18 4263887,39
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   DISCCART
            633611.82 4263887.39
                                  7.32
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   DISCCART
            633620.46 4263887.39 7.32
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RE FINISHED
 **
 ** AERMOD Meteorology Pathway
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* *
ME STARTING
   SURFFILE "L:\SSD FOLDERS\Modeling\AermodMet 14134\Not 1 Minute Met
Data\Executive\10-14\Exec 10-14 N1MD.SFC"
   PROFFILE "L:\SSD FOLDERS\Modeling\AermodMet 14134\Not 1 Minute Met
Data\Executive\10-14\Exec 10-14 N1MD.PFL"
   SURFDATA 23232 2010 SACRAMENTO/EXECUTIVE ARPT
   UAIRDATA 23230 2010 OAKLAND/WSO AP
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ME FINISHED
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** AERMOD Output Pathway
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OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST C:\25725res\25725RES.AD\01H1GALL.PLT 31
  PLOTFILE 1 STK1 1ST C:\25725res\25725RES.AD\01H1G001.PLT 32
  PLOTFILE PERIOD ALL C:\25725res\25725RES.AD\PE00GALL.PLT 33
  PLOTFILE PERIOD STK1 C:\25725res\25725RES.AD\PE00G000.PLT 34
OU FINISHED
**
** Project Parameters
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM World Geodetic System 1984
** DTMRGN Global Definition
** UNITS
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** ZONE
         10
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