HUD > Program Offices > Community Planning and Development > Environment > DNL Calculator

Site DNL Calculator

For more information on using the noise calculator, to access the user guidebook, or send comments, please visit the following page:
Day/Night Noise Level Electronic Assessment Tool

Guidelines:

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1**: Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2**: DNL Calculator assumes roadway data is always entered.

Site ID NEP0230a
Record Date 3/25/2014
User's Name

Railroad #1 Track Identifier: NJTR Operations Crossing No. 586573C

Rail # 1		
Train Type	**Electric** ☐	**Diesel** ☐
Effective Distance		1145
Average Train Speed		45
Engines per Train		2
Railway cars per Train		50
Average Train Operations (ATO)		6
Night Fraction of ATO		15
Railway whistles or horns?	Yes: ☐ No: ☐	Yes: ☐ No: ☐
Bolted Tracks?	Yes: ☐ No: ☐	Yes: ☐ No: ☐
Train DNL		54.7531
Calculate Rail #1 DNL	54.7531	Reset

Add Road Source Add Rail Source

Airport Noise Level	
Loud Impulse Sounds?	○ Yes ○ No
Combined DNL for all Road and Rail sources	54.7531
Combined DNL including Airport	N/A
Site DNL with Loud Impulse Sound	

Calculate

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**
  Cancel the project at this location **DNL Calculator**
- **Other Reasonable Alternatives**
  Choose an alternate site **DNL Calculator**
- **Mitigation**
  - **Contact your Field or Regional Enviornmental Officer** - **Environmental Contacts**
  - **Increase mitigation in the building walls** (only effective if no outdoor, noise sensitive areas).
  - **Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses** **DNL Calculator**
  - **Incorporate natural or man-made barriers.** See **The Noise Guidebook**
  - **Construct noise barrier.** See the **Barrier Performance Module**

Refresh

U.S. DOT - CROSSING INVENTORY INFORMATION
AS OF 3/25/2014

Crossing No.: ***586573C*** Update Reason: ***Changed Crossing*** Effective Begin-Date of Record: ***01/03/88***

Railroad: ***NJTR New Jersey Transit Rail Operations [NJTR]*** End-Date of Record:

Initiating Agency ***State*** Type and Positiion: ***Public At Grade***

Part I Location and Classification of Crossing

Division:	***SYSTEM***	State:	***NJ***
Subdivision:		County:	***CAPE MAY***
Branch or Line Name:	***CAPE MAY BRANCH***	City:	***In DENNISVILLE***
Railroad Milepost:	***0071.81***	Street or Road Name:	***MAIN ST***
RailRoad I.D. No.:	***CMSX***	Highway Type & No.:	
Nearest RR Timetable Stn:	***WHITESBORO***	HSR Corridor ID:	
Parent Railroad:		County Map Ref. No.:	
Crossing Owner:	***Cape May Seashore Lines, Inc. [CMSX]***	Latitude:	***39.0392220***
ENS Sign Installed:		Longitude:	***-74.8583330***
Passenger Service:		Lat/Long Source:	
Avg Passenger Train Count:	***0***	Quiet Zone:	***No***
Adjacent Crossing with Separate Number:			

Private Crossing Information:

Category: Public Access:

Specify Signs: Specify Signals:

	ST/RR A	ST/RR B	ST/RR C	ST/RR D
Railroad Use:				
State Use:				

Narrative:

Emergency Contact: ***911*** Railroad Contact: State Contact: ***(609)530-5627***

Part II Railroad Information

Number of Daily Train Movements: Less Than One Movement Per Day: ***No***

Total Trains: ***6*** Total Switching: ***0*** Day Thru: ***4***

Typical Speed Range Over Crossing: From ***30*** to ***60*** mph Maximum Time Table Speed: ***60***

Type and Number of Tracks: Main: ***1*** Other ***0*** Specify:

Does Another RR Operate a Separate Track at Crossing? ***No***

Does Another RR Operate Over Your Track at Crossing? ***No***

U.S. DOT - CROSSING INVENTORY INFORMATION
Continued

Crossing ***586573C*** Effective Begin-Date of Record: ***01/03/88***
End-Date of Record:

Part III: Traffic Control Device Information

Signs:

Crossbucks:	***2***	Highway Stop Signs:	***0***
Advanced Warning:	***No***	Hump Crossing Sign:	
Pavement Markings:	***Stop Lines and RR Xing Symbols***	Other Signs: ***0*** ***0***	Specify:

Train Activated Devices:

Gates:	***0***	4 Quad or Full Barrier:	
Mast Mounted FL:	***6***	Total Number FL Pairs:	***0***
Cantilevered FL (Over):	***0***	Cantilevered FL (Not over):	***0***
Other Flashing Lights:	***0***	Specify Other Flashing Lights:	
Highway Traffic Signals:	***0***	Wigwags: ***0*** Bells:	***1***
Other Train Activated Warning Devices:		Special Warning Devices Not Train Activated:	
Channelization:		Type of Train Detection:	***DC/AFO***
Track Equipped with Train Signals?	***No***	Traffic Light Interconnection/Preemption:	

Part IV: Physical Characteristics

Type of Development:	***Industrial***	Smallest Crossing Angle:	***60 to 90 Degrees***
Number of Traffic Lanes Crossing Railroad:	***2***	Are Truck Pullout Lanes Present?	***No***
Is Highway Paved?	***Yes***		
Crossing Surface:	***Concrete***	If Other:	
Nearby Intersecting Highway?	***Less than 75 feet***	Is it Signalized?	
Does Track Run Down a Street?	***No***	Is Crossing Illuminated?	
Is Commercial Power Available? ***Yes***			

Part V: Highway Information

Highway System:	***Non-Federal-aid***	Functional Classification of Road at Crossing:	***Rural Local***
Is Crossing on State Highway System:	***No***		
Annual Average Daily Traffic (AADT):	***000500***	AADT Year:	***1988***
Estimated Percent Trucks:	***01***	Avg. No of School Buses per Day:	***0***
Posted Highway Speed:	***0***		