3.0 COMMENTS AND RESPONSES

This chapter contains comments received from federal, state, and local agencies and the general public during the public comment period for the Tier I Draft Environmental Impact Statement (Tier I DEIS). The Notice of Availability for the Tier I DEIS appeared in the *Federal Register* on August 5, 2001. This began the standard 45-day comment period. The comment period was extended and closed on December 28, 2001 after 18 public hearings in Virginia and North Carolina. In accordance with the National Environmental Policy Act (NEPA), public and agency comments were reviewed and incorporated into this Tier I FEIS. These public and agency comments are taken into consideration by the Boards of Transportation for Virginia and North Carolina Departments of Transportation in the decision making process.

Public comment was encouraged at each of the public hearings and in newsletters, other publications, and the project hot line. It was made known that responses to these comments would be published in the Tier I FEIS. The following presents the SEHSR Tier I EIS comment and response process.

3.1 Comment Receipt and Review

Comment Receipt

Comments on the Tier I DEIS included both written correspondence and oral testimony received during the public comment period. All comments received during that period are included in the Comments section.

Comment Review

In accordance with 40 Code of Federal Regulations (CFR) 1503.4, comments were assessed and considered as follows:

- Each comment letter and oral testimony was assigned an identification number (e.g. RAL-001) and were read and reviewed carefully.
- Within each comment letter or testimony, substantive comments were identified and given a key number (e.g. 32). The identification number and the key number are used together to identify each substantive comment (e.g. comment number 32 RAL-001). Three guidelines were used for determining substantive comments:
 - 1. The comment questioned or provided remarks on the proposed action, alternatives, the analysis/evaluation of alternatives or other components of the proposed SEHSR construction and implementation.
 - 2. The methodology of the analysis or results was questioned or clarification was requested.
 - 3. The use, adequacy, or accuracy of data was questioned or clarification was requested.
- Non-substantive comments were those expressing opinions regarding the proposed SEHSR or some component of it but did not require a specific detailed response. These comments are identified solely by their identification number (e.g. RAL-001).

- The substantive comments were reviewed by environmental resource specialists and other technical staff who drafted the responses. In some cases, similar comments were assigned the same response. If the same comment was repeated within the same letter or oral comments, it was only identified for response the first time it appeared.
- The individual comments were categorized by topic. These responses are organized by topic and then consecutively by Comment Nurnber within each topic.

3.2 Locating Comments and Responses

Responses to specific comments may be accomplished a variety of ways. Tables 2-1, 2-2, and 2-3 list all substantive comment numbers sorted by agency, geographic location and topic. Table 2-1 lists comment numbers by agency and topic. Table 2-2 lists comments from North Carolina by location and by topic, and Table 2-3 lists comments from Virginia by location and topic. If you are interested only in responses to comments from a certain agency or location, these tables will help you identify the appropriate comment number to cross reference with Table 2-4 (the comment response table). Substantive comments and responses are located in Table 2-4 and are sorted by topic and comment number. Non-substantive comments and responses are grouped by geographic location in Table 2-5.

Public and agency involvement is an important part of the NEPA process, and all comments are taken into consideration by the Virginia Department of Rail and Public Transportation, and the North Carolina Department of Transportation in their decision making process.

The VDRPT and NCDOT would like to express appreciation for your comments. The fact that no responses were prepared for many of the comments praising the proposed SEHSR and requesting the proposed corridor or a station be located in or near a specific town or city does not in any way reduce the value of your participation.

Table 3-1
Comments by Agency and Topic

Subject	Commen	t Number
Agency:	CSX – Ra	aleigh, NC
Alternative	7	AGE-018
	8	AGE-018
	9	AGE-018
Cost	45	AGE-018
	46	AGE-018
	47	AGE-018
Safety	187	AGE-018
Agency: EPA, Region 3	– Philade	elphia, PA
Air Quality	2	AGE-011
Alternative	4	AGE-011
	5	AGE-011
	6	AGE-011
Cost	40	AGE-011
	41	AGE-011
Cultural Resources	68	AGE-011
Design	73	AGE-011
Environmental Justice	94	AGE-011

Subject	Commen	t Number		
Errata	98	AGE-011		
,	99	AGE-011		
	100	AGE-011		
Hazardous Materials	102	AGE-011		
	103	AGE-011		
Infrastructure	105	AGE-011		
Land Use	118	AGE-011		
Natural Resources	122	AGE-011		
	123	AGE-011		
	124	AGE-011		
Noise/Vibration	131	AGE-011		
	132	AGE-011		
	133	AGE-011		
	134	AGE-011		
Other	140	AGE-011		
Purpose and Need	160	AGE-011		
Ridership	162	AGE-011		
Socio-economic	200	AGE-011		
	201	AGE-011		
Summary	227	AGE-011		
	228	AGE-011		
Agency: FEMA - Region 3	- Philade	elphia, PA		
Natural Resources		AGE-005		
Agency: FHV	VA – Rich	mond, VA		
Cost	42	AGE-012		
	43	AGE-012		
Design	74	AGE-012		
Ridership	163	AĠE-012		
	164	AGE-012		
	165	AGE-012		
	166	AGE-012		
	167	AGE-012		
	168	AGE-012		
Agency: Corps of E	ngrs – Ra	aleigh, NC		
Other	141	AGE-016		
Agency: NC Div. of Wate	r Quality -	- Raleigh,		
THE THE PROPERTY OF THE PROPER		NC		
Other	139	AGE-003		
Agency: NOAA				
Earth/Mineral Resources	90	AGE-007		
US Department of the Interior – Petersburg, VA				
Cultural Resources	69	AGE-013		
Agency: VA Department of				
and Energy – Charlo Earth/Mineral Resources	gesville, 91	AGE-015		
Agency: VA Department				
Transportation – Ric	hmond <u>,</u> ۱	/A		
Cost	44	AGE-014		

Subject	Comme	nt Number	
Agency: Corps of E	ngineers – I	Vorfolk, VA	
Infrastructure	106	AGE-017	
Natural Resources	125	AGE-017	
	126	AGE-017	
Agency: VA Department of Historic Resources – Richmond VA			
Cultural Resources	67	AGE-001	

Table 3-2
North Carolina Comment Numbers by Location and Topic

Subject	Comme	nt Number		
Location: Cary				
Alternative	10	CAR-009		
Community	37	CAR-013		
Environmental Justice	95	CAR-002		
	96	CAR-006		
Infrastructure	107	CAR-010		
Proposed Action	144	CAR-008		
Public Involvement	155	CAR-001		
Socio-economic	202	CAR-012		
Location: Cha	arlotte	TANGEN TO THE TANK TH		
Alternative	11	CHA-004		
	203	CHA-010		
Socio-economic	204	CHA-011		
Location: Du	rham 💮	19835 19835 19836		
Alternative	12	DUR-020		
Design	75	DUR-015		
	236	DUR-016		
	76	DUR-019		
Infrastructure	108	DUR-018		
Noise/Vibration	135	DUR-004		
Proposed Action	145	DUR-023		
Ridership	169	DUR-025		
Safety	188	DUR-002		
	189	DUR-004		
	190	DUR-017		
Socio-economic	205	DUR-002		
	206	DUR-017		
Water Resources	233	DUR-003		
Location: Gree	nsboro	A CONSTRUCTION OF THE CONS		
Alternative	13	GRE-005		
	14	GRE-008		
	15	GRE-009		
Cost	48	GRE-004		
Design	78	GRE-011		
Other	237	GRE-020		
Ridership	170	GRE-004		

Subject	Commer	nt Number			
The state of the s	171	GRE-010			
	172	GRE-020			
	173	GRE-020			
Water Resources	234	GRE-001			
Location: Hen		A STAN AND AND AND AND AND AND AND AND AND A			
Alternative	16	HEN-001			
	17	HEN-020			
Cost	49	HEN-002			
Design	79	HEN-008			
Design	80	HEN-014			
Proposed Action	146	HEN-020			
Public Involvement	156	HEN-013			
Socio-economic	207	HEN-005			
Socio-economic	208	HEN-016			
	209	HEN-020			
S. (Schools about the second s	TOTAL COLOR STORY CO.				
0049/pgenpgenssss	leigh	D.41 000			
4 (f)	1	RAL-007			
Cultural Resources	70	RAL-009			
_	71	RAL-015			
Design	84	RAL-009			
Natural Resources	128	RAL-007			
Proposed Action	148	RAL-012			
Ridership	174	RAL-014			
Safety	191	RAL-007			
Location: Roanol	Location: Roanoke Rapids				
Alternative	21	ROA-010			
	22	ROA-015			
	23	ROA-016			
Cost	56	ROA-001			
	57	ROA-014			
Proposed Action	149	ROA-008			
Ridership	175	ROA-013			
•	176	ROA-024			
	177	ROA-030			
Safety	193	ROA-017			
•	194	ROA-018			
Socio-economic	211	ROA-013			
	212	ROA-019			
Location: Sali		I I I I I I I I I I I I I I I I I I I			
Alternative	24	SAL-002			
Alternative	25	SAL-007			
Energy	93	SAL-007			
Natural Resources	129	SAL-002 SAL-008			
Socio-economic	213	SAL-008			
Location: Sa	V EDITORAL DE PORTO DE PROPERCIONA	SAL-001			
SUPPLIES THE PROPERTY OF THE P	10000000000000000000000000000000000000	A PROBLEM STATE OF THE PROPERTY OF THE PROPERT			
Cost	58	SAN-003			
Public Involvement	159	SAN-002			

Subject	Commer	ıt Number
Location: S	itar	AGENTS CO.
Hazardous Materials	104	STA-005
Noise/Vibration	137	STA-002
	138	STA-005
Other	143	STA-014
Safety	196	STA-005
	197	STA-012
	198	STA-013
Socio-economic	218	STA-003
Location: Wi	Ison	7771X88XXX
Air Quality	3	WIL-008
Alternative	34	WIL-012
Cost	64	WIL-008
Environmental Justice	97	WIL-015
Natural Resources	130	WIL-008
Proposed Action	152	WIL-009
	153	WIL-014
Ridership	185	WIL-011
Socio-economic	219	WIL-008
Location: Winsto	n-Salem	254 2202473
Alternative	35	WIN-217
	239	WIN-243
	240	WIN-243
	242	WIN-248
	36	WIN-250
Cost	65	WIN-003
	241	WIN-243
	66	WIN-267
Proposed Action	154	WIN-246
Ridership	186	WIN-266
Socio-economic	220	WIN-001
	221	WIN-008
	222	WIN-020
	223	WIN-024
	224	WIN-025
	225	WIN-237
	238	WIN-243
	226	WIN-343
Water Resources	235	WIN-006

Table 3-3
Virginia Comment Numbers by Location and Topic

Subject		nt Number
Location: Free	lericksburg	J.::
Design	77	FRE-006
		Petersburg
Community	38	PET-004
Cost	50	PET-001
	51	PET-011
Design	81	PET-005
	82	PET-012
	83	PET-014
Natural Resources	127	PET-002
Noise/Vibration	136	PET-003
Other	142	PET-009
Proposed Action	147	PET-011
Public Involvement	157	PET-010
Socio-economic	210	PET-013
Summary	229	PET-006
Location: R		11 21-000
CARACAL CARACACTURE CONTROL CO	2928	T = 10 o 4 4
Alternative	18	RIC-014
	19	RIC-019
	20	RIC-024
Community	39	RIC-008
Cost	52	RIC-001
	53	RIC-002
	54	RIC-003
	55	RIC-004
Design	85	RIC-021
	86	RIC-022
	87	RIC-031
Infrastructure	109	RIC-020
	110	RIC-027
	111	RIC-028
Land Use	119	RIC-018
Public Involvement	158	RIC-023
Safety	192	RIC-016
Schedule	199	RIC-029
Technology	230	RIC-025
Tier II	232	RIC-002
Location: S		Tiller i Saddarana (1
Alternative	26	SOU-007
,	27	SOU-009
Socio-economic	214	SOU-001
Location: S		
Alternative	28	SPR-020
	29	SPR-030
	30	SPR-032

Subject	Commer	ıt Number
**COMMON TO THE COMMON TO THE	31	SPR-036
	32	SPR-042
	33	SPR-043
Cost	59	SPR-003
	60	SPR-004
	61	SPR-005
	62	SPR-006
	63	SPR-018
Cultural Resources	72	SPR-007
Design	88	SPR-012
	89	SPR-025
Earth/Mineral Resources	92	SPR-008
Errata	101	SPR-016
Infrastructure	112	SPR-018
	113	SPR-029
	114	SPR-031
	115	SPR-033
	116	SPR-034
	117	SPR-044
Land Use	120	SPR-035
Proposed Action	150	SPR-028
	151	SPR-041
Purpose and Need	161	SPR-038
Ridership	178	SPR-018
	179	SPR-026
	180	SPR-037
	181	SPR-039
	182	SPR-039
	183	SPR-040
	184	SPR-045
Safety	195	SPR-025
Socio-economic	215	SPR-002
	216	SPR-010
	217	SPR-013
Technology	231	SPR-021

Table 3-4
Substantive Comments and Responses by Topic

Com	ment Numbe	Comment	Response
38.8	btroso.	Topic: 4 (f)	THE COLUMN TWO IS NOT
1	RAL-007	Triangle Land Conservancy	Thank you for this information, it will be added to our inventory of parks
	Topic: 4 (f)	in Lee County in October of 2001 with money from the North Carolina Clean Water Management Trust Fund. The site includes an indoor iron furnace, which is a 30-foot high iron furnace that was used before the Civil War and is a site of great historical significance. The Triangle Land Conservancy (TLC) will transfer the land to the state of North Carolina. The plan is to open the furnace apart eventually. The southern route, as proposed, will pass through this property. Because the land is not yet a park, the preliminary assessment did not identify this land as a park so that did not factor into the assessment. I would like to strongly applaud the development of mass transit between North Carolina and Metropolitan areas particularly rail. I would urge you to continue your efforts in developing the rail alternatives in North Carolina. But would urge you all to consider strongly not using a southern route because of its adverse impacts on the triangle land conservancy site.	for future reference. Impacts to this resource have been avoided through the choice of Alternatives A and B for the preferred routing (neither A nor B utilize this corridor)
	AOE 044	Topic: Air Quality	
2	AGE-011	If this level of detail is available on this	The residential relocations were on the footprint of the conceptual design
	Topic: Air Quality		as identified from limited field
	All Quality		observation and mapping. This was

Comr	nent Number	Comment	Response
		refers to comment, which says "The extent of residential relocations defined in Table 4.38 is notable and needs explanation since the assumption is that the SEHSR would occupy existing ROW.")	done as a part of the conceptual engineering effort on the project to identify existing conditions within the railroad rights of way and in areas where we may have need to go outside of the rights of way. This information was also needed to be able to develop credible order of magnitude capital cost estimates, which were also a part of the evaluation criteria. Noise and vibration analysis, and air quality analysis, require modeling that is beyond the scope of a program level document. The more detailed noise and vibration and air quality analysis will be done during the Tier II documentation when analyses of specific alignments and designs are considered.
2	W/II OO8	Topic: Air Quality	
3	Air Quality	Looking at the impacts of the emissions that are to be generated from the trains going through the area, has there been any consideration or I should say, I hope there will be consideration and further to the air quality issue that Raleigh contends with. I think they have the highest air quality problem in the country at present. So just looking at the fact that the tables indicate that we may have half a million pounds of toxins going into the air from the trains traveling through the state would be considered at some point.	based on the number of trips diverted from auto to rail. This is a positive net benefit to air quality.
		Topic: Alternative	TENERS CONSTRUCTION CONTROL CO
4	Topic: Alternative	Table 2.10 and 2.11: Please update these tables. The 1295/64 flyover is complete, not planned. The Dulles Airport expansion is underway, not planned e.g. the underground walkway.	The information provided in this comment has been incorporated in the respective tables via errata sheets. These tables will be updated further and as needed during any future Tier II environmental documentation that may result from the Tier I Record of Decision.
5	Topic: Alternative	Table 4,29: To a non-railroad engineer this table is unreadable. Please explain in the text and in the table legend how to interpret this table or remove it if it doesn't add much useful information.	Table 4.29 graphs the potential daily schedule conflicts between high speed rail and commuter rail in the congested corridor between Fredericksburg, Va. and Washington, D.C. The information contained in

Com	ment Number	Comment	Response
		l .	this table is useful as a planning tool
			to better coordinate schedules
			between high speed rail and
			commuter rail. It notifies both high
			speed rail and commuter rail that
			future studies may require additional
		l .	consideration of passenger capacity,
			track use, and station access due to the potential number of passengers.
			the potential number of passengers.
		·	The readability of this table has been
			improved by adding an explanation in
			the text and in the legend and the
			change is noted in an errata sheet
6	AGE-011	Some technology options for powering	
		• •	were run at a variety of speeds to
	Alternative	consideration without full explanation.	test the effect of speed on ridership.
		Both states dropped the electric	These models showed that within our
		traction option apparently due to high costs relative to ridership. One	20 year planning window, increasing speeds above 110 mph (via
		negative factor was the lack of vertical	
		clearance in some places and the	increase ridership, and yet would
		visual impact of overhead wires. The	increase cost from 200% - 300%
	1	document does not indicate whether	
		third rail power supply instead of	Third rail power presents unique
		overhead wires was considered, This	problems for the incremental
		action would eliminate the need for	approach that utilizes both a shared
		overhead wires. Third rail may be a	corridor with mixed commuter,
		viable option, especially since efforts	freight, and passenger service and
		will have: already been made to "seal"	shared lines (freight and passenger
		the corridors (in part for safety). The	using the same actual track) with atgrade crossings. A third rail operation
		electric traction option would not only meet, but would exceed the	would ideally need to be totally
		operational requirements for speed. It	
			uses from a safety standpoint. In the
		because it would minimize the	incremental approach, it is
		environmental impacts associated with	impractical to effectively seal the
		noise and polluting air emissions. This	
		is important because several areas	there would be greatly increased
		within the study corridor have existing	risks for workers maintaining the
			other corridor uses.
		One key performance factor to win	The town "each" in the Tier I DEIS
		and retain riders is to ensure that rail travel time is less than vehicular travel	The term "seal" in the Tier I DEIS
		time. In the future, as demand	the use of four quadrant gates and/or
		increases for more station stops, the	median barriers to keep vehicles
		diesel locomotive will not have the	from going around the gates when in
		increased performance potential that	the down position. Third rail also
		electric has in terms of acceleration,	uses low voltages, which require that
		top speed and deceleration to	the substations are much closer
		compensate for more stops. To further	
		reduce delays, every effort should be	This greatly increases the overall
		made to provide seamless	environmental impacts as well as

Comr	ment Number	Comment	Response
		connections. Since trains north of Washington are electrified, this is added justification for further consideration of the electric traction locomotive on the SEHSR.	cost. Seamless connection with the NEC would be accomplished either by using a push/pull configuration of both fossil fuel and electric locomotives, or changing engines in the DC area as is currently done.
7	Topic: Alternative	over the last several years, discussions have focused on two alternatives regarding ownership and control of the S-Line. The first alternative would be for CSX to sell the S-Line to a responsible buyer. This would give the acquiring party control over the operations on the line. A second alternative, suggested at various times from the State of North Carolina, would be some type of partnership, with CSX retaining operating rights for freight service. While we are still opened minded on the issue, our current preference would be to sell the S-Line. Our A-Line offers us a high quality freight line that meets our current and future operating needs. We also think that separating high speed rail from slower moving freight trains makes a good deal of sense in the long-term. As will be discussed further below, our company policy is to not allow mixed freight and passenger operations in excess of 90 mph. A word should also be said about the unique nature of the S-Line. In today's world of "not in my backyard" local politics, the ability to access a fully connected right-of-way of 140 miles from Cary, NC to Petersburg, VA is a significant opportunity. If this were a highway project, the planners would not hesitate a moment to recognize the importance of this assembled corridor and pay the full up-front cost of acquisition, realizing the benefits that	Operations over any of the alternatives under consideration would require appropriate agreements with the owners/operators of the existing right of way and infrastructure. These agreements will be negotiated, and as such they will reflect the conditions acceptable to all parties involved. The existence of the S-line as an intact transportation corridor is recognized as a valuable asset by both VA and NC.
8	AGE-018	come from ownership. Capacity: We must be able to operate	Capital improvements to the A-line
		our network and serve our current and	
SEHS		DC to Charlotte, NC	3-12

Comr	nent Number	Gomment'	Response 4
	·	performance. Regardless of the issues on the S-Line, it must be noted that the A-Line between Petersburg and Richmond is part of our I-95 corridor, which is one of the busiest and most important on our system. The introduction of new passenger trains originating as part of the SEHSR Coalition will likely require capital improvements to ensure that our freight rail operations are not compromised. The Commonwealth of	improvements included constructing second tracks where single tracks currently exist, lengthening and adding passing sidings, consolidating crossings, and improving signalization. These improvements were designed to accommodate both passenger and freight needs through the design year, based on the information available to the planning team. Future detailed studies (Tier II) will be coordinated with the freight railroads to insure adequate facilitation of existing and future service needs.
9	AGE-018 Topic: Alternative	Lastly, we do recognize that some benefits could be obtained by CSX from the Alternative A-Plus proposal. They would potentially include: 1. fair market compensation from a possible S-Line sale, 2. operating rights on the S-Line if it is put back in service, 3. S-Line could be used during the maintenance periods on the A-Line or times of natural disaster to give us increased operating flexibility, 4. some Amtrak trains could be pulled off the already congested A-Line, freeing up capacity.	These comments are statements of opinion that do not require responses.
10	CAR-009 Topic: Alternative		Coordination of commuter rail and high speed rail passenger services extends beyond the structures to schedules and ridership. Specific station design is a function of a more detailed study, as is detailed coordination with local/regional commuter services and these will take place during the Tier II studies. The NCDOT Rail Division will continue to work toward a coordinated station in the Raleigh area.
11	CHA-004 Topic: Alternative	He suggests to upgrade the Amtrak system and dispose of any fossil fuel train concepts.	With the exception of the northeast corridor, the Amtrak system uses fossil fuel trains. The northeast high speed rail corridor upgraded existing electrification systems to operate at higher speeds. The cost of constructing overhead wires, sub-

Comr	nent Number	Comment	Response
			stations at 30-mile intervals, and signal systems for electrified rail are 2 to 3 million dollars per mile. Previous feasibility studies indicate the optimum return for the SEHSR corridor is at the 110 mph top speed within our planning horizon. These requirements are adequately met with fossil fuel locomotives without incurring the additional environmental impacts from substation construction; the additional costs (decreasing the benefit cost for public investment); safety concerns and overhead clearance requirements.
12		How can time between Raleigh and	TTA will share right-of-way for a
	Topic: Alternative	Charlotte be affected if route uses same track as TTA? How does	short portion of the SEHSR. The NCDOT Rail Division is presently
	Aiternative	SEHSR plan to coordinate use of track	
		with TTA, Amtrak, and freight?	Amtrak and the freight railroad
			companies) on designs to accommodate all users of the right-
			of-way. The two systems vary in
			both purpose and technology. Commuter rail (TTA) uses lightweight train sets to travel short distances with frequent stops. Freight railroads require a different and separate track system from the track system for their heavy rail services. Therefore, TTA will have it's own system of tracks that will not significantly affect the SEHSR.
			Coordinating Amtrak, SEHSR and freight will be accomplished using state-of-the-art signaling systems for train traffic, lengthening passing sidings to accommodate longer
			trains, and separating through tracks from service-oriented tracks.
13	GRE-005	Have you considered high speed mag	
	Topic:	lift rail as opposed to mag lev? Have	technology. Maglev is a propulsion
	Alternative	you explored placing mag lift in the median of the interstates? In other	technology. Monorail-based transportation systems are short
		words, utilize the interstates ROW we	distance systems associated with
		all own as opposed to RR corridors	special purpose services (i.e. airline
		that were fine in 1900 but not very	terminals, amusement area
		populated in 2001. I understand that even though commerce has moved	connector). This purpose is inconsistent with the long distance,
SEHO	D Washington	DC to Charlotte. NC	3-14

Comr	nent Number	Comment	Response
	•	away from RR corridors, that the road	
		crossings continue to weigh heavily as	
		a high cost safety issue. Would not	technology considered in this study.
		placing monorail in the median be a	L
		project worth researching relative to	Magnetic Levitation (Maglev) and
		speed, ridership, costs, safety, low	related technologies hold a great
		environmental impact, and the like?	deal of promise for the future,
		Especially in terms of cost over a 30	especially as it relates to higher
		year period of time. I would like to ask that if you have done such a study, I	two pilot projects for maglev
		would very much appreciate reviewing	
		it. In terms of "door to door", I look at	for these projects is between 39-85
			million dollars per mile. Based on the
		map the "employment centers", that is,	
		those areas where we work, shop,	our planning horizon (see response
		dine, entertain, even attend	11 CHA-O4), this high cost is not
			warranted for the SEHSR corridor at
			this time.
		can park my car at a metro station and	
		commute via express or multi-stop	The incremental approach allows us
		·	to maximize the existing rail system,
'		have drawn a map showing such a system. Same could be applied to an	as well as the other existing transportation systems as we
		interstate-aligned monorail system.	develop a program of rail ridership in
		From Downtown Raleigh, through	the SEHSR corridor.
		RTP, to RDU Utilize the mag lift	
		system throughout the state, and use	
		either mag lift or a Bombardier/OTG/or	
		Severn Lamb type system for the local	
		rail. Connecting station for the state	
		system in our area would be placed at	
		Lee Street exit off I-85. We then run	
		the local system through the triad and the state system continues on to	
		Charlotte via I-85. Simple, fast,	
		convenient and I believe could be built	
		with a profit motive in mind due to a	
		far higher ridership. Selling	,
		sponsorships along the way for	
		developments such as Grandover in	
		Greensboro, which might purchase	
		access to a station at its convention	
1.4	CDE 009	center along I-85.	Although the exact location of
14	GRE-008 Topic:	After carefully analyzing the information in Exhibits ES-6 and ES-	stations would occur at a later date,
		· ·	
		is clearly best overall. It would also	of this study included Petersburg,
		provide an alternative route to existing	
		Amtrak service via Greensboro and	NC. Star and Troy were not
		Rocky Mount. I assume there would	considered in this study.
		be some intermediate stops at places	The analysis put forth in the Tier I
		like Petersburg, Henderson,	FEIS has identified Alternatives A &
		somewhere near Sanford (perhaps	B as best meeting the purpose and

Comr	nent Number	Comment	Response
		Colon) and either Star or Troy.	need of the overall project, while minimizing environmental impacts. Station locations and schedules will be determined through the Tier II planning studies.
15		Take route through Greensboro and include both High Point and Winston-Salem track improvements. You cannot leave out either city.	This Tier I FEIS identifies as preferred the Alternatives A&B. These combine to include both High Point and Winston-Salem.
16	Topic: Alternative	As part of this project, will there be any efforts or funding to create secondary services such as bus service to and from local rail stops?	Many of the existing stations have been, or are in the process of being, renovated, including their connections to supporting transportation services. These efforts have been funded separately from the SEHSR corridor development, and they will continue through the Tier II process.
17	HEN-020 Topic: Alternative	What towns would the train stop?	Final station stop locations will be determined during the Tier II process. For the purpose of this study, the cities of Washington, D.C., Alexandria, VA, Fredericksburg, VA, Richmond, VA, Petersburg, VA, Henderson, NC, Raleigh, NC, Cary, NC, Durham, NC, Burlington, NC, Greensboro, NC, High Point, NC, Salisbury, NC, Kannapolis, NC, Winston-Salem, NC, and Charlotte, NC were identified for estimating travel time and capital costs.
18	Alternative	a mention at that time of the possibility of perhaps moving our train station out of town up to the sewer plant outside the Town of Ashland. And that proposal led to the general public outcry, I would have to say, after that became public. And I just wanted to restate for the record that I personally, and a large number of citizens in Ashland, are not in support of moving our station out of downtown. We see that as a vital part of our community; and it is important, we feel, to keep service from downtown to downtown, not from sewer plant to downtown.	
19	RIC-019 Topic: Alternative	In some places I see reference to the little alternative loop route north of Richmond that runs from Main Street Station and loops around to Doswell, but it doesn't show on there, that	While the overall study area includes the old C&O line from Richmond up to Doswell, the conceptual engineering and analyses done for this document utilize the former

Comr	nent Number	Comment	Response
		particular map. Can you comment on is that in or out of the matrix of the route segment consideration?	RF&P line. One of the key purposes for this document is the identification of general routing south of Richmond through Raleigh to Charlotte (all alternatives under consideration utilize a common corridor north of Richmond).
20	RIC-024 Topic: Alternative	Another question about it in terms of Hampton Roads, and this comment I have read periodically, which is one I cannot conceive of whenever it is done that it would not include the Petersburg/Norfolk Southern, and Norfolk and Virginia Beach in the future as a separate (inaudible).	All of these railroad lines are outside scope of this present study, however, during the Tier II studies connecting corridors will be examined as appropriate for the segment under consideration that that time.
21	ROA-010 Topic: Alternative	Had the high-speed train for all the extremely important and salient reasons that have been expressed tonight but in addition possibly and in coordination with you guys, possibly having that steam train so that it can boost the economy in this area. As possible as well, such a steam train could be put together with private dollars so it would involve government aid in that respect and really see the economy boost as a result.	Thank you. That comment is outside the scope of this present study, but will be noted for future consideration as appropriate.
22	ROA-015 Topic: Alternative	I would ask that you consider in the study, if it has not already been considered, when you run a train, it should run from Alexandria to Charlotte as the same train and hopefully with the same engineer and avoid two or three hours in Richmond and other places where the current trains lay over.	Thank you. That comment is noted for future consideration as appropriate.
23	ROA-016 Topic: Alternative	My only comment is that in order to get the Weldon, you have to come through Garrysburg. My question to you, are you planning on having any more stops or are you just going to use the existing stops.	Station stops have not yet been determined. See response 17 HEN-20.
24	SAL-002 Topic: Alternative	I think that high-speed rail is the right thing to do. The event something you have not mentioned is that the events of September 11, when the entire airline industry was shut down for a period of several days. I think that illustrates the importance of developing additional modal choices.	Thank you for your comment.

Comr	nent Number	Comment	Response
25	SAL-007 Topic: Alternative	We should now consider bus commuter systems for Forsyth, Guilford, and Davidson Counties tied in to the chosen rail route. When evaluations are made for 2010/2020-	Thank you for your comment. We have been and plan to continue to coordinate with the Piedmont Authority for Regional Transportation (PART) and their efforts in planning and implementing regional transportation programs for the Triad.
00		overall transportation system.	
26		Would like a station/stop at LaCrosse, Virginia.	stops have not yet been determined. See response 17 HEN-20.
27	SOU-009 Topic: Alternative	0 ,	Your proposal is interesting but we are unable to evaluate it as a part of this study. Present technology for building an underground system is cost prohibitive for the benefit received during our planning horizon. See response 13 GRE-05
28	Topic: Alternative	Don't try to save a buck by avoiding major population areas like Winston-Salem. In the long run it will be better to include them (unless existing systems will tie into SEHSR).	This Tier I FEIS identifies as preferred Alternatives A&B which includes a connection to Winston-Salem.
29	SPR-030	Make train stations downtown, not in a rural area like Richmond.	Station locations have not yet been determined. However, historically downtown stations have been the mainstays of inter-city rail travel both in America and Europe.

Comr	nent Number	Comment	Response
30	Topic:	Use regional, slower speed trains to connect smaller cities to SEHSR.	SEHSR is proposed to be a part of an integrated transportation system for the southeastern region. The proposed service would be designed to work cooperatively and effectively with other modes providing the maximum mobility options for the system user.
31		I recommend maximum interchange with airports-travel between the modes should be seamless, not competitive.	See response to comment number 30 SPR-032.
32	Topic: Alternative	say more or less. I mean I'm not trying to pin you down on a final number. Well, what it comes down to is the number of stops impinges or affects your average speed or your travel time. In other words, every time you stop, there are X amount of minutes lost in accelerating and decelerating, plus the standing time in the station. Amtrak is figuring that out up there in that Boston to New York run.	determined. For the purpose of this study, it was assumed that all stations currently served by Amtrak would continue to be served. See response 17 HEN-20
33	Topic:	Was consideration given to marketing as a potential commuter rail between Richmond and Washington?	The SEHSR is an intercity passenger rail service with appropriate service frequencies. Commuter rail service requires a much higher frequency of service. Therefore, the SEHSR was not considered a potential commuter service in any service area.
34	Alternative	Why not examine route link between Raleigh and Rocky Mount via direct route or Raleigh to Wilson via a direct route? Eliminate Selma and shorten route from Raleigh to Richmond.	Charlotte, NC as the study corridor. These two routes are not within the study corridor based on the findings of earlier feasibility studies.
35	Alternative	The building of more highways has not satisfied or created more efficient means of moving people. The costs for moving people should be directed into efficient rail and highway construction. The examples of more highways can be seen in the I-40, I-85 and US-52 that has caused congestion and fatal accidents. It would seem to me that on existing highways such as I-40, I-85, I-77 and US-52 that the development of monorail systems to run over these	in comment number 13 GRE-005.

Comr	nent Number	Comment	Response
		highways would bring about less congestion, less accidents, reduce our dependency on foreign oil and improve air quality in our state. The examples are out there where highway development has caused a negative quality of life due to the time frame people spend in their automobiles to got to their place of employment each day-for example, Houston, Atlanta, Los Angeles and the list goes on. Let NC be a leader in bringing rail systems into the transportation plan.	
239	WIN-243 Topic: Alternative	(B) air traffic needs the passenger rail service now,	See response to comment number 32 SPR-032.
240	WIN-243 Topic: Alternative	(C) highway travel is a nightmare in most large cities,	One of the goals of the proposed SEHSR is to provide a viable alternative to travel by auto on congested roadways.
242	WIN-248 Topic: Alternative	I don't believe Winston-Salem is a bump. It is actually a straight line between Charlotte and DC. At least one of the routes bypasses a lot more population basis than such a bump would provide.	The comment made at the Tier I DEIS hearing referring to Winston-Salem as a "bump" makes reference to the fact that Winston-Salem is a little further north and west of the NCRR right-of-way, which appears to be more of a straight line connecting most of the piedmont communities.
36		calculations particularly based upon that 15 miles instead of showing an almost 3/4 hour difference from the length of the trip going from Charlotte to Washington. It should probably be closer to a half-hour addition based upon 60 miles an hour for the train and a 10-minute stop. Again, that is based on some riding high-speed rails in England and also in Italy.	to Lexington, - stop time at Winston-Salem to change the direction of the train at the terminal stop (necessary for doing required safety checks if this is a pull-in stations versus a pull through station), and -in the additional length of travel.
07		Topic: Community	The state of the s
37	Topic: Community	offering support of the NCRR alignment of the SEHSR Corridor and the Cary town manager writes a letter	

Com	ment Number	Comment Response
		use, safety, mobility and accessibility, provision of public services, economic conditions, displacements, and potential community impacts as a component of environmental complexity. No substantially negative community impacts were found at the programmatic level in the Tier I DEIS. More detailed study of community impacts would be undertaken for the recommended alternative(s) in any Tier II documentation. Any Tier II environmental analyses would take into consideration more localized impacts such as compliance with land use and transportation, as well as noise and public safety.
38	PET-004 Topic: Community	Mr. W.C. Scheid, Director of Planning or Dinwiddie County, Virginia writes to Rail and Public Transportation held a pexpress to communities concerns over the proposed SEHSR. Mr. Scheid lists en concerns ranging from conversion mental impacts to property impacts: 1. Portions of this line have been studied as an East Coast Greenway trail and have received State and National recognition as such. The Dinwiddie County Parks and Recreation Department have embraced this study 1. Based on the Tier I identification of public parks, within the 500-foot Study Area Alternative buffer and with no specific alignment set, there is little variation between the study areas in the number of public parks. Study areas range from a high of 16 to a low of 11, with most areas having 15 public park areas. Study areas which utilize the S-line have 14 (Alternative A), 15 (Alternative C) public park areas respectively. Tier II study and analysis will allow for greater consideration of localized impacts and need
		for avoidance or mitigation as more specific route alignments are determined. 2. The State Comprehensive Outdoor Recreation Plan has for avoidance or mitigation as more specific route alignments are determined. 2. Please refer to responses to #1 and #4. Also, this track

3. Several County citizens have purchased portions of this railroad property to access their property and/or have built structures within the abandoned rail line 3. The Tier I DEIS found that each of the Study Area Alternatives would require varying degrees of right-of-way acquisitions and varying number of relocations. Precise numbers are not possible at the program level of review and analysis. Projected total right-of-way acquisitions range from 620 acres for Alternatives C (uses S-line). Other S-line Alternative A and B are projected at 678 acres and 731 acres respectively. Projected total residential relocations range from 156 for Alternative E. Alternative S that utilize the S-line are projected have the following residential relocations: 365 for Alternative A, 371 for Alternative B, and 220 for Alternative C. Projected total business relocations range from 130 in Alternative D to 234 in Alternative B (uses S-line). Other S-line Alternatives	Comment Number	Comment	Response
purchased portions of this railroad property to access their property and/or have built structures within the abandoned rail line access for Alternatives and analysis. Projected total right-of-way acquisitions range from 620 acres for Alternatives C (uses S-line). Other S-line Alternatives A and B are projected at 678 acres and 731 acres respectively. Projected total residential relocations range from 156 for Alternative J to 411 for Alternative J to 411 for Alternative E. Alternatives that utilize the S-line are projected have the following residential relocations: 365 for Alternative B, and 220 for Alternative B, and 220 for Alternative B, and 220 for Alternative C. Projected total business relocations range from 130 in Alternative D to 234 in Alternative D to 234 in Alternative B (uses S-line). Other S-line Alternatives A and C are projected to have 144 and 132 business relocations respectively. Right-of-way acquisitions could result from realigning curves to obtain/maintain the maximum operating speed and/or preservation of natural and man-made features, which may require a new location for the rail alignment. The need for land acquisition		abandoned track as serving recreational needs for County residents and connecting	legal abandonment process and is therefore inactive versus abandoned, and is still is owned by a freight rail road
		purchased portions of this railroad property to access their property and/or have built structures within the	each of the Study Area Alternatives would require varying degrees of right-of- way acquisitions and varying number of relocations. Precise numbers are not possible at the program level of review and analysis. Projected total right-of-way acquisitions range from 620 acres for Alternative D to 930 acres for Alternatives C (uses S-line). Other S-line Alternatives A and B are projected at 678 acres and 731 acres respectively. Projected total residential relocations range from 156 for Alternative J to 411 for Alternative E. Alternatives that utilize the S-line are projected have the following residential relocations: 365 for Alternative A, 371 for Alternative B, and 220 for Alternative C. Projected total business relocations range from 130 in Alternative D to 234 in Alternative B (uses S- line). Other S-line Alternatives A and C are projected to have 144 and 132 business relocations respectively. Right-of-way acquisitions could result from realigning curves to obtain/maintain the maximum operating speed and/or preservation of natural and man-made features, which may require a new location for the rail alignment. The need for land acquisition

Comment Number	Comment	Response
Topic: Community	4. The line traverses some major Civil War Battlefields identified as such by the National Park Service. The Board of Supervisors has endorsed the Park Service's Battlefield Epicenter Plan (October 2001) and is in the process of reflecting this action in the update of the County's Comprehensive Land Use Plan	properties that might be acquired will be more thoroughly defined during the Tier II environmental process. In addition, information would need to be gathered about the properties and occupants and relocation benefits and sites would be specified. All persons whose property is acquired or who are displaced as a result of a Federal or Federally-assisted project are ensured of fair, consistent, and equitable treatment through the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 and the Uniform Relocations Act Amendments of 1987. State rules and regulations regarding property acquisition would also apply. 4. The numbers of National Register Historic Sites and Study List Historic Sites located within a 1,500-foot study buffer (which equates to a total width of approximately 0.5 mile) were identified for each Study Area Alternative in the Tier I DEIS. The current number of National Register Historic Sites range from 333 in Alternatives A, B, D, and E to 291 in Alternative J. The existing number of Study List Historic Sites ranged from 168 in Alternative C. The highest combined number of National Register and Study List Historic Sites, estimated at 498, are located within Alternatives D and E while the least number, estimated at 362, are located within Alternative C. Future evaluation in Tier II will involve the identification of historic and architectural

Comment Number	Comment	Response
Topic: Community		resources within more specific alignments through background research and field surveys, assessment of the effects, and consultation with interested parties, the State Historic Preservation Offices (SHPO), and the Advisory Council on Historic Preservation in compliance with the guidelines set forth by North Carolina and Virginia's State Historic Preservation Offices. If an adverse effect is anticipated, the agency will consult with the SHPO and others in an effort to find ways to make the undertaking less harmful. Potential mitigation could include avoiding historic sites by shifting the alignment, minimizing the area of impact through engineering design, or adding other aesthetic enhancements to eliminate or lessen visual impacts.
	5. The line is located in close proximity to properties which have been developed since the line was abandoned and will adversely impact many of these properties	5. Given the programmatic nature of the Tier I Draft Environmental Impact Statement, a high level assessment was made of community impacts. No significantly negative community impacts were found at the programmatic level in the Tier I DEIS. In addition, at this point in the EIS process, adverse impacts are considered "possible," since passenger equipment type, freight use, and frequencies and time of use all play a part in any adverse impact determination. This information will not be known until Tier II analysis begins. More detailed study of community impacts will be undertaken for the recommended alternative(s)

Comment Number	Comment	Response
Topic: Community		in the Tier II environmental documents. This will include consideration of more localized impacts such as compliance with land use and transportation, as well as noise and public safety.
		Also refer to response to #3.
	6. There are considerable at grade rail crossings with the County's secondary roads. There are safety concerns with this situation. It is understood that grade separation is expensive to construct and, generally, considered as a "last resort". Obviously, road closures will occur which will cause inconveniences to the citizens of Dinwiddie County	utilizing the S-line rank lower than their counterparts that do not utilize the S-line. At-
	7. There are environmental	and targeted public outreach.
	considerations which will impact on adjacent properties	Refer to response provided for CAR-013-37.
·	8. The County will not receive any long term benefit from the rail line and will lose any option for alternative uses of the line in the future. As explained by representatives from the North Carolina and Virginia Rail Divisions, ownership of the line will be vested with the State and tax revenue will not be derived by the County. During initial discussions there were statements made that clearly	Consequently, tax revenue benefits to the state and/or county are unknown. Public passenger rail service has

Comment Number	Comment	Response
Topic: Community	established this as a passenger service line and not for industrial purposes. Recent discussions have softened on this matter to the point there is confusion. Also, some comments have been offered regarding train stop(s) and/or station(s) as enticements for support of the line	
	9. There is an active rail line located to the east. A parallel line, alternate "A", could be built with much less impact on adjacent property owners and the community	9. The active rail line has been included as part of the Tier I DEIS in Study Area Alternatives G, H, and J. These three study areas potentially have less impact on adjacent property owners in terms of acres to be acquired, # of residential relocations, and square footage of business relocations. When the study area alternatives are compared based on all study criteria, only Alternative G ranks above other Alternatives only in annual auto to rail diversion in 2025, net reduction in NO _x emissions, and net energy reductions. When Study Area Alternatives are reviewed based on economic viability factors (i.e., net operating contribution and capital cost efficiency factors) Alternatives G, H, and J all rank in the bottom three. More detailed study will be needed in the Tier II DEIS to assess and propose mitigation to possible relocation impacts.
	10. There is considerable concern with the line location in the northern portion of the County as it relates to Chaparral Steel and the County's Enterprise Zone. Clearly, this matter must be addressed before the	 The Tier II EIS analyses will provide the opportunity for detailed study of this area and the potential impacts.
	County considers endorsement of this project. The	

Comi	nent Number	Comment	Response
	Topic: Community	County/State/private funds have been expended amounting to millions of dollars to develop this area and the proposed S-line will run through the middle of this area. This situation must be studied carefully.	
39	Community	·	Refer to response provided for comment number 37 CAR-013.
35		Topic: Cost	
40	Cost	will be the project operator, but we assume it will be Amtrak. If this is the case, Amtrak's cost guidelines may be relevant and should be included in the document. Also, the required subsidy versus system revenue generation should likewise be presented.	Amtrak is assumed to be the operator in that they are the only entity with statutory authority requiring the underlying railroad companies to work with them. Amtrak cost factors were used in calculating the net operating contribution (see Table 2.17) which measures potential income or loss
41	Topic: Cost	an actual proposal to fund the construction of the project, there was no data on what constitutes a viable (cost-effective) rail project by the FTA or the FRA. This information should be included in the document, since it is probably in the feasibility studies referenced in the DEIS.	The Tier I (program level) document addresses the purpose, the need, the potential regional impacts, the general route, and comparisons to other travel options. Economic information is included in the document as a factor in alternative evaluations (see Table 2.17), and in Chapter 1 of this Tier I FEIS in the business analysis The preferred alternatives shown in this document show a positive net income contribution using conservative ridership estimates
42	Cost	Factoring in additional riderships for Alternative C should not have resulted in additional conceptual capital cost. These costs had already been determined and would not have been affected by the ridership adjustment.	Ten million dollars is discussed twice in the background data. First in the Virginia initiatives referring to the VRE-related capital improvements. This is in the RF&P portion of the corridors that is common to all alternatives. A second reference is to "over \$9 million" in the North Carolina initiatives. This refers to the sealed-corridor program used for crossing safety improvements throughout

Comr	nent Number	Comment	Response
			North Carolina. To effectively increase ridership, the alternative would have to be more "attractive" to passengers than the other alternatives. Since high speed rail indicates a faster method of transportation, thereby reducing travel times, the way to attract more passengers to Alternative C would be to reduce the travel times by spending more capital funds to improve the track and route.
43	AGE-012 Topic: Cost	stated that Alternative C was unique from the others because it actually separated from existing intercity rail passenger service (EIRPS) lines at Petersburg to form another line. I went on to say that I felt some of the figures for Alternative C were skewed, or understated, because of that separation at Petersburg. At the December 11 meeting, you indicated that because of my comments another model had been run and the net operating income for Alternative C had increased by about \$2 million but at the same time, conceptual capital cost had increased by about \$10 million. Since the meeting, I have been thinking about Alternative C and still believe that the figures for it may still be understated and not truly representative. I am submitting some additional comments for your consideration.	study corridor between Washington DC and Raleigh is identical for Alternatives A, B, and C As for the increased income and increased conceptual capital cost, only an increase in ridership can increase the income. To effectively increase ridership, the alternative would have to be more "attractive" to passengers
44	AGE-014	· ·	Conceptual capital costs are based
	Topic: Cost	estimates showed a cost of about \$3.5 million per mile and about \$250 for	corridor in addition to known improvements that are planned but
CEHC	D Washington	DC to Charlotte NC	3-28

Comr	nent Number	Comment	Response
		escalated. FRA's recent study showed higher costs. We are working with CSX engineers to develop project by project cost estimates.	to all alternatives, the same cost was factored into the total cost for each alternative.
45	AGE-018 Topic: Cost	in our right-of-way. Our most recent requirement is a minimum of \$500 million in insurance per incident, subject to upward adjustment. However, due to ever increasing liability exposure, we have our limits under constant review and cannot commit to any prescribed limits for future occupancies.	The issue of insurance will be addressed prior to the implementation of high speed rail in the operating agreements that will be established with the appropriate parties
46	AGE-018 Topic: Cost	Compensation: We expect to be compensated for any use of our rights-of-way at fair market value. CSXT will not subsidize passenger operations by discounting property or service below market values. To be clear, we do not define market value as the current Amtrak rate, which is the result of a historical bargain that relieved the railroad of common carrier obligations for passenger service in the early 1970s.	implementation of high speed rail, in the operating agreements that will be established with the appropriate
47	AGE-018 Topic: Cost	true long-term costs of the project. If it is the intent of the Southeast Coalition	the actual construction of improvements and the funding of those improvements. The conceptual costs of the project account for the improvements anticipated for implementation of high speed rail to a maximum speed of 110 mph. This reflects the estimated long-term investment that would be required to implement this service. This

Comr	nent Number	Comment	Response
		While this is not clearly defined in the draft, we assume that the proponents expect to make some amount of profit from the operations. We have looked at passenger operations throughout the world, and to the best of our knowledge there is not a single operation that makes a profit when capital costs are factored into rates of return.	
48	Topic: Cost	set of tracks to handle an Acela or a mag lev train? You may as well compare that to taking advantage of the highway corridors to understand the differences. What about automation vs. having to man each train? How does that cost compare? What about 30 year operating numbers? At the end of the day, I am extremely concerned that if we follow the path of the current rails, and if we decide to use surface rail whether	system) would cost approximately 9 to 10 million dollars per route mile to construct. Maglev technology is estimated to cost approximately \$39-85 million per route mile to implement. Automated train technology has seen rapid advancements recently, but the advancements apply to light rail transit and freight yard operations. Implementing an automated train system requires automation equipment installation on both public and private sector equipment. This also requires a central control of train traffic since multiple freight companies operate within the same region. See response 13 GRE-05.
49	HEN-002 Topic:	What would be the cost if any to county residents? Cost from Henderson to Raleigh?	Funding for the high speed rail project would be from federal and state funds. Counties and cities would not fund improvements nor subsidize operations for this passenger rail service. The costs of specific improvements have not been determined for this program level document. Only conceptual capital costs for each alternative were developed for comparison purposes. Specific costs can only be determined with more detailed design, which will be prepared during the Tier II studies.
OFIIC	D Washington	DC to Charlotte NC	3-30

Comr	nent Number	Comment	Response
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50			Conceptual capital cost includes estimated costs for purchasing right-of-way, improving track geometry and condition, improving safety at highway railroad at-grade crossings, and grade-separating highway railroad crossings.
51	Topic: Cost	How would this project be funded?	The high speed passenger rail project would be funded by federal and state funds.
52	Topic: Cost	Another question we heard back in the (inaudible) – in the DC to Richmond corridor where there is some funding available and things are progressing a little further, the question related to that from, especially from (inaudible) shortly things that speed up that trip. The stretch from Acca Yards to the station is in significant need of considerable upgrading. And I'm just curious whether that (inaudible) upgraded, and I'm (inaudible) current funding and time frame?	capital improvements for the Washington, D.C. to Richmond, VA
53	Topic: Cost	You are in the Tier I study now, the higher review. You are moving to the Tier II study beginning next year. Is there a financial study? Tier II is also environmental?	Any Tier II study would include further refinements in the conceptual capital cost as well as operating revenue and expense. Tier II is an "environmental" study in name, but it would also include the financial study of a project.
54		Can we get information from you about the financial study?	From a program level document, the financial portions of the study are the conceptual capital cost of improvements and projected estimates of operating revenues and expenses. These are included in the Tier I EIS.
55		(Financial Study) We will start hearing more about that in Tier II?	See response to comment number 53 RIC-002 above.
56	ROA-001 Topic: Cost	How much will this cost each citizen?	The cost would be funded from federal and state funds as a portion of the overall tax revenues generated by each government entity. Some form of bond funding has also been proposed. The individual cost to each citizen as a portion of the total taxes paid by that citizen cannot be determined at this time.

Comr	nent Number	Comment Comment	Response 14
57		done is going to be much more expensive than the construction costs. You say you are going to consolidate or close crossing and there is an awfully lot of lake property and other property along the north side of what the existing railroad is. If you are talking about the existing right of way. If you go closing these crossings then you are going to cut off a lot of subdivisions and potential for subdivisions in this area. I think that is going to be very expensive. It is going to greatly exceed, I believe, the cost of the construction itself. It makes sense to follow the existing lines that you	crossings is based on the current use of existing crossings. No existing residences would be left isolated from access to a highway right-ofway (i.e. some form of access would be provided). Future subdivisions or developments would have to successfully negotiate with the existing railroad right-of-way owner for cross-access. The necessary improvements to the bridge across Lake Gaston was a factor in the development of conceptual capital costs for the alternatives that include this segment.
58	SAN-003 Topic: Cost	Cost comparison on regional basis or national basis?	The purpose of this study is to compare costs associated with the options available for this corridor, including the option of doing nothing or "no-build". A cost comparison to regional or national projects of a similar nature would not assist in determining the preferred alternative, including the no-build alternative.
59	Cost	Concerned about limited funds available for transportation projects in VA. SEHSR will serve a limited number of Virginians directly (their own trips) and indirectly (less crowded roads and airways). With big ticket transportation projects currently underway (Springfield interchange, Wilson Bridge), others looming (I-81 corridor, metro to Dulles) and increasingly limited state revenues, I wonder if this is the most effective use	most effective use of scarce funds is to fund a program that provides the best alternative to resolve the concerns. That is the purpose of this study.

Comr	nent Number	Comment	Response
		of scarce funds.	# 1 - 200 - 200 March 1 - 200
60		The cost of commuting maybe a concern for citizens residing in certain areas of the alternative routes.	The fare for the proposed SEHSR service is planned to be competitively priced to make it attractive to potential riders. It should be noted that this is a proposed intercity passenger rail project rather that a commuter or transit project.
61		How much federal funding is in the works?	Congress has not specified the level of federal funding for the SEHSR as of the publication of this document
62	Topic: Cost	Although we haven't talked about funding yet for this part, was the northern section – was there federal money for the D.C. to Boston?	Federal funds were appropriated for the construction and operation of the Northeast High Speed Passenger Rail Service.
63	SPR-018 <i>Topic:</i>	How are the net operating income was derived? Are non ticket revenue items included?	
64	Topic:	what are the expectations if known for local share of the contribution to the overall project	See response to comment number 49 HEN-002.
65		Cost/Funding should be 75% from RR and the rest from Winston-Salem.	The exact funding ratio for the proposed SEHSR has not been determined. Cost and funding scenarios would be refined during the next phases of project development
241	Topic: Cost	(D) the US Treasury Dept. had over two trillion dollars in surplus, until the 9/11 disaster, for a source of money for this work,	Thank you for your comment. See response 65 WIN-003 above
66	WIN-267 Topic: Cost	The future potential growth of ridership will be higher by including Winston-Salem rather than by passing the city. The projected decrease in revenues appears overstated. A 30,000 drop in ridership shows a \$5.1 million drop in revenues. How much are you valuing each rider? This would amount to close to \$150,000 per ticket.	ridership of approximately 40,000 with an increase in revenue of approximately \$2 million. The only "drop" occurs in net operating income with a reduction of approximately \$1 million. The increased expenses of adding the mileage and stop to service Winston-Salem reduce net operating income.
	agentical and a second a second and a second a second and	Topic: Cultural Resour	
67	Topic: Cultural Resources	We recommend that a Memorandum of Agreement be completed for the project in order to outline procedures for dealing with cultural resource issues	Section 106 of the National Historic Preservation Act requires Federal agencies to take into account the effects of their undertakings on historic properties. The NCDOT and the VDRPT would identify historic

Comr	ment Number	Comment	Response
ga et godenna.		The company of the control of the co	properties potentially affected by the undertaking, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects on historic properties. In the Tier I DEIS, the assessment of impacts to historic properties is at a very broad level. During any subsequent Tier II evaluation, a more detailed alignment would be studied, and field surveys and studies would be completed to identify and determine the eligibility of historic properties in the area of potential effects. If deemed necessary, a Memorandum of Agreement would be completed for any Tier II documentation.
68	Topic:	Table 4.31: Please indicate in the table the buffer width used for this calculation.	The study buffer width of 1500 feet is mentioned in the second paragraph, second sentence on page 4-92.
69	AGE-013 Topic: Cultural Resources	The alternative using the "S" railway corridor that traverses Dinwiddie County, VA may adversely impact cultural landscape features on certain nationally significant Civil War battlefields in the County. The 1993 report to Congress by the Civil War Sites Advisory Commission identified nineteen class A or B battlefields in Dinwiddie County that deserve preservation. As far as we can tell from the maps provided, the "S" railway corridor would pass through a portion of the Hatcher's Run battlefield. There are other lands in question where three additional Civil War battles have occurred that may be impacted by the proposed railway corridor. Although the battlefield sites are not yet on the National Register of Historic Places, they are probably eligible for inclusion and should be preserved for posterity. An alternative route for this high-speed rail corridor is preferred.	
70	Topic: Cultural Resources	I've got concerns about the historical area of Wake Forest, Youngsville, Franklinton, and that area. I know now that when CSX comes through, they still go faster than they are supposed	detailed analysis would be done of potential noise and vibration impacts
		to sometimes so everything shakes and rattles. I know that the historic	and the need for and nature of possible mitigation measures would
SEHS	R Washington	DC to Charlotte, NC	3-34

Comr	ment Number	Comment	Response
		area downtown, the residential area will not be able to withstand. I don't think any speeds that are more than what they have now because of the buildings are rather old. They have been preserved and taken care of but that's for what it is now. I know that it a dead-end line now. I know there is just one track. I know when we built our house everywhere we asked in town, several people said this track can barely withstand what goes through it now. It had been fixed but you don't have to worry about any high-speed coming through or anything.	
71	Cultural Resources	The Railroad House Historical Association and the Triangle Land Conservancy write to call attention to significant natural areas and Conservancy properties that segment 20 and 21 of the SEHSR may impact.	In the Tier I DEIS, the assessment of impacts to historic properties is at a very broad level. During any subsequent Tier II evaluation, a more detailed alignment would be studied, and field surveys and studies would be completed to identify and determine the eligibility of historic properties in the area of potential effects. The determination of eligibility of properties for inclusion on the National Register of Historic Places would be made during any subsequent Tier II study process.
72	Topic: Cultural	I'm interested in the cultural resource impacts. Need to improve contacts between the communities in NC and VA.	In the Tier I DEIS, the assessment of impacts to historic properties is at a very broad level. During any subsequent Tier II evaluation, a more detailed alignment would be studied, and field surveys and studies would be completed to identify and determine the eligibility of historic properties in the area of potential effects. Contacts with local preservation commissions and planners will occur at that time. The determination of eligibility of properties for inclusion on the National Register of Historic Places would be made during any subsequent Tier II study process.
2301	St. St. St.		
73	AGE-011 Topic: Design	The document is not clear at all about the required width expansions to existing rights-of'-way. Basic information such as what present R-O-W could accommodate (for an	utilizes the existing infrastructure to the maximum extent practicable, the

Con	ıment Numbeı	Comment &	Response
		additional track) is lacking. Some cross-sectional diagrams with widths would certainly help.	the entire corridor. It is anticipated the right of way width would typically vary from 100 to 200 feet. In some areas where commuter, freight, and passenger rail coexist, six or more tracks may be required. In other areas as few as two lines would be adequate. For the most part, additional right-of-way would only be needed to accommodate necessary curve straightening.
74	AGE-012	Even though Alternative C is shown as	ALT A and ALT C both use the S
	Topic: Design	having the fastest average travel time between Washington, DC and Charlotte of 6.20 hours, I don't understand why it is only .03 of an hour faster than Alternative A, the current preferred alternative and the alternative closest to Alternative C. From Petersburg to Charlotte, Alternative A has potentially up to three more stops than does Alternative C. How much time does it take for only one stop? Alternative C is also 20 miles shorter in length than Alternative A. Taking these things into consideration, I would think that Alternative C should be more likely .30 of an hour faster rather than .03 of an hour.	both ALT A and ALT C trains will stop in Petersburg and two of the four daily frequencies will also stop in Henderson NC producing no
			This changes dramatically in Raleigh. ALT A trains proceed west over the NCRR with potential stops in seven intermediate communities. There will be eight daily one way frequencies over this 174 mile NCRR route segment. It is assumed for estimation purposes that two express trains will stop only in Durham and Greensboro, while the other six trains will make a maximum of four intermediate stops with each en route community being served at least three times a day in each direction.
		DC to Charlotte, NC	ALT C trains travel between Raleigh and Charlotte over a 154 mile segment of CSXT and ACWR. For planning purposes it is assumed that three trains stop at Cary and Sanford, and three trains make a

Comr	nent Number	Comment	Response 🔭 💮
	2000 A 100 A		stop at one but not the other community. Two trains would run nonstop between Raleigh and Charlotte.
			The two ALT A express trains cover the distance between Raleigh and Charlotte in two hours 10 minutes with the multistop trains taking two hours twenty minutes for the journey. On ALT C, the two nonstop trains between Raleigh and Charlotte take one hour 52 minutes, the three one stop frequencies take one hour 57 minutes, and the three two stop trains take two hours two minutes.
		··	Unlike the two minute average spread in travel times between ALT A and ALT C shown in Table 2.17 there is in fact, a 28 minute difference in travel times between the fastest trains in ALT C and the slowest trains in ALT A between Raleigh and Charlotte. The time difference between the fastest trains on each route is 18 minutes and the difference for the multistop trains varies from 18 to 23 minutes. The revenue, ridership and operating cost forecasts were derived using these schedule patterns developed by the consultants in January 2000, and not the average trip times shown in Table 2.17.
75	Topic: Design		It is important to understand the difference between projected speed and operating speed. Projected speed is the speed attainable based on existing or proposed track and safety improvements. Operating speed is the actual speed at which the train functions. The projected speeds through Durham vary depending on location, track geometry (curve speed), and crossing safety. For the purpose of the comparison required for this study, projected speeds were evaluated. Also a decisive factor for speeds through Durham is the high
	D.114	DC to Charlotte, NC	probability of most trains stopping

Comr	nent Number	Comment .	Response
			there, with the commensurate slowing and startup.
236	DUR-016 Topic: Design	How will the train intersections be designed at Blackwell Street and Duke Street? Will the designs allow for pedestrians and vehicle safety, and complement the linkage among our downtown districts (American Tobacco/Brightleaf/Inside the Loop, etc.)? It is absolutely critical that these key downtown intersections allow easy pedestrian and car movement between the distinct downtown districts North and South of the railroad tracks.	study, but will be taken into consideration during the appropriate Tier II studies.
76	DUR-019 Topic: Design	Will SEHSR have room for bikes?	Cycling on railroad rights-of-way is an on-going safety and liability concern. With high speed rail having a maximum speed of 110 mph, cycling on the right-of-way used by the SEHSR would be prohibited. Accommodating the storage of bicycles on the train can provide service for cyclists using the SEHSR.
77	FRE-006 Topic: Design	be used on the Virginia-NC corridor? Will most of the trains run faster than 79mph within VA and NC?	A specific train control system has not been identified by this study. The selection of this system would occur through negotiations between all parties operating within the corridor. Only the high speed passenger trains are expected to operate at speeds higher than 79 mph. However, since the tracks would be constructed for the higher speed passenger service, other trains that can operate safely at speeds greater than 79 mph may be allowed to operate at those speeds.
78	Design	be properly banked to allow for continuous high speeds. Major problem exists with current DC to Boston high speed service where the bullet train does not maintain high speeds but has curves that reduce speed to 15-20mph in sections.	All of the alternatives have curves that require reducing speed below the maximum. The issue of "banking" the curves is a function of the maximum speed attainable at the rate of curvature. Conceptual designs for the purpose of estimating conceptual capital cost included the cost of curve improvements to support both high speed and freight services.
79	Design	I own property adjacent to the existing track and the only means I have to get to my property is to access the track at	Existing access across railroad right- of-way would either be improved to

Comr	nent Number	Comment	Response
		With a HSR, I fear that crossing will be closed and no person adjoining my property has been willing to sell or give me a means to reach an existing state road, which would keep one from having to cross the RR track. Other property owners would be affected in some way.	access. Specific highway-railroad closings and the design of alternative access is too detailed for a program
80	HEN-014 Topic: Design	Would RR crossings have the lighted arms to come down at all crossings? Speeds through Henderson?	Crossing safety would be a major design concern for the SEHSR. Improvements to existing highway-railroad at-grade crossings would include grade separations, consolidations/closings, and warning signal installations. These improvements would aid in improving train speed. Specific crossing design will be discussed in the Tier II studies.
81	PET-005 Topic: Design	west and north by the old Seaboard	No existing property interests would be left without access as a result of the project unless appropriate
82	PET-012 Topic: Design		Crossing safety would be a major design concern for the SEHSR. Improvements to existing highway-railroad at-grade crossings would include grade separations, consolidations/closings, and warning signal installations. These improvements would aid in improving train speed.
83	Topic:	And also if Amtrak is already in existence, will we be using the same tracks in – at 110 mph, at that speed? The tracks that are there now, will they support it?	Design of the SEHSR would include studies of existing facilities to determine whether to use the
84		Will this be stopping at these smaller towns or will they have to use the crossing and make one crossing in each town? Because I know in Wake	Conceptual designs for this study allowed at least two crossings in each town/community to provide an alternative means of access across the railroad for emergency response. The travel time from one side of town

Comr	nent Number	Comment 5	Response
		the town of Youngsville has one or two crossings but they will close on of those probably. The town of Franklinton, it goes through the	and motorists yielding to emergency vehicles. These factors will be studied in detail in the engineering and Tier II evaluation phases.
85	Topic: Design	that exists today would still be intact, which would provide shorter routes. And I am curious, the addition of	On some segments of the SEHSR freight and high speed passenger rail would operate on the same tracks with adequate passing sidings, and in some segments complete new double tracking or triple tracking may be needed. The need for complete separation of tracks is a function of speed and the requirements of any operating agreements established with the freight railroads, as well as specific requirements that FRA may have.
86	Topic: Design	Will the freight run on a different track than the high speed train? Is it possible to know what NC has decided? (in regards to using separate track for passenger and freight)	·
87	Topic: Design	way of engineering parameters for ways and structures. For example: (1) is CWR assumed throughout, (2) is existing special track to remain, (3) is a signal system planned throughout, (4) what changes in existing freight and passenger rail services are assumed, (5) how many stops/stations along the way?	The conceptual design did assume the use of continuous welded rail (CWR), as well as an appropriate signal system for high speed service. The changes assumed for existing freight and passenger rail services are those changes necessary to add high speed rail service with minimal impact.
			The exact number of stops/stations varies with each alternative. Alternatives A, B, D, E and J assumed 15 stops. Thirteen stops were assumed for Alternatives C and F. While Alternatives G and H assumed 17 stops.

Comi	nent Numbei	Comment	Response
88	SPR-012 Topic: Design	Rail line should not serve as a barrier to local walking and bicycling across the rail line.	Conceptual designs of at-grade railroad crossings included pedestrian and cycling safety measures to allow safe passage across railroad right-of-way.
89	SPR-025 Topic: Design	I recommend maximum use of bridges or tunnels, and minimum grade crossings for safety and public perception. Every train-vehicle accident at a grade crossing seems too decrease public support for rail, no matter how unfairly.	railroad crossings included grade separations where possible, quad gates with flashing lights, and consolidating/closing the remaining crossings where practical.
00	AOE 007	Topic: Earth Mineral Res	
90	AGE-007 Topic: Earth Mineral Resources	NOAA writes to reveal comments after review of the DEIS. The letter warns of possible impacts to geodetic control monuments by the proposed SEHSR.	
			alignment would be studied, and a comprehensive analysis of impacts would be conducted.
91		database is very incomplete. The Division of Mineral Resources has field located all mineral resource sites in the eastern two-thirds of Virginia. These locations are digitized and table or map prints could be made available. We would need a map at a scale of at least 1:100,000 of the proposed route to plot the locations. Also, the use of a Web site for geology along the proposed project when more detail geologic data is available is a very weak part of the document.	department regarding the additional mineral resource sites information along this detailed alignment, and the additional information would be included in any Tier II document
92	SPR-008 Topic: Earth Mineral Resources		In any Tier II document, a more detailed alignment would be studied, and a comprehensive analysis of impacts would be conducted. The NCDOT and the VDRPT would be contacting the Virginia Department Mines, Minerals and Energy- Division of Mineral Resources regarding additional mineral resource sites information along this detailed alignment. It is likely that the Stoney Creek titanium mine would be

Comi	nent Number	Comment	Response
			located in this updated information. This information will be included in any Tier II document.
PARKET SEC	0.000000000000000000000000000000000000	Topic: Energy	Company of the control of the contro
93	SAL-002 Topic: Energy	I think that if our National Energy Policy depends on petroleum products and if the majority of petroleum products are coming out of the middle east, if things become less stable there, it will further increase the energy effectiveness. I think your study shows that the energy effectiveness of high-speed rail is for superior to the individual automobile	Based on information from the Transportation Energy Data Book, trains are more energy efficient than aircraft or autos on a per mile basis. A typical passenger train driven by a diesel locomotive consumes about 350,000 BTU's of energy per vehicle mile. A typical automobile consumes about 6,500 BTU's of energy per mile. With the higher passenger capacity of the train it is more efficient than a single occupant
	THE PERSON OF TH	Paratas and the sandaba parata	automobile.
0.4	ACE 011	Topic: Environmental Ju	The state of the s
94	AGE-011 Topic: Environ- mental Justice	Page 4-69: Conclusions from Minority and Low-Income Population Findings. The first sentence states that the preceding analysis yielded some insights on this issue, but does not list or discuss them. This is illustrative of this kind of finding that could be discussed further in this document and then brought out in a thoughtful summary/comparison or alternatives.	discussion of minority and low- income population impacts. In particular, Tables 4.25 and 4.26 and Figures 4.11, 4.12, and 4.13 provide comparisons of minority and low- income populations by study area
95	mental Justice	Our position as it relates to SEHSR is "let's get it done", yet we want to be assured that the African American and Latino-American communities are not overlooked. The lack of involvement by these communities usually has us relegated to being reactionary at most. With this situation, we hope to be more proactive by asking you and your colleagues for inclusion.	underrepresented group, environmental justice focused interviews were conducted with

Comr	nent Number	Comment	Response
			Hispanics. Community leaders provided input on major community concerns and support of high speed rail, community involvement in similar projects, and public participation history and recommendations. These types of activities would be expanded in any Tier II environmental analyses to continue outreach to underrepresented groups. Also refer to response provided for comment number 155 CAR-001.
96	Topic: Environ- mental Justice	My only concern is that the African- American and Hispanic-American receive equal and fair representation and benefit of the proposed rail system. I ask that these amenities have inclusion in the decision-making process as well as the construction, maintenance, and administration of this wonderful idea.	Refer to responses provided for comment numbers 95 CAR-002 and 155 CAR-001.
97	Topic: Environ- mental Justice	Strongly favor alternatives G, H, and J. The A-line is the most cost effective. Upgrading the A-line would enable faster runs on Amtrak's profitable NY to FL routes. Eastern NC has extremely poor air service. There is a large minority population in eastern NC that has strong cultural and family ties to the Northeast Corridor.	A review of the net operating contribution across all alternatives shows those alternatives using the Aline have the following net operating contribution: \$20.06 million (Alt. G), \$13.57 million (Alt. H), and \$4.09 million (Alt. J). In contrast, Alternatives A and B have a \$26.34 million and \$25.27 million net operating contribution, respectively. Similar results are found when conceptual capital cost is reviewed. The costs are higher for Alternatives using the A-line (\$2.752 \$2.957 billion) than for Alt. A (\$2.611 billion) and Alt. B (\$2.720). In addition, the information used to model projected ridership takes into consideration ridership connections beyond the SEHSR corridor to the Northeast Corridor, based on historic and demographic Amtrak data. Projected annual SEHSR ridership in 2025 is higher for Alternatives A (1.76 million) and B (1.79 million) than for Alternatives using the A-line (1.31-1.67 million). The SEHSR project does not displace current Amtrak service. Any station that currently has Amtrak (conventional) service would continue to receive that

Comi	nent Number	Comment	Response
			service.
	· .	Errata	
98	AGE-011 Topic: Errata	All the tables and figures in this document need to be updated and reviewed for clarity, completeness. EPA found several examples of tables or figures lacking legends or with incomplete legends or the tables with out-of-date data.	All tables and figures will be reviewed and updated as appropriate and as available data permits. Figure and table changes will be reported in the errata sheets for the document. Please note when the DEIS was developed the most recent and available data was used. Most notably, 2000 Census data has not yet been formally released and is therefore not available for use in this document. The 2000 census data will be used for Tier II documentation. In addition with such a large study area, developing maps and graphics at a scale that would show the entire area in a report size format was difficult and explains why there are numerous 11 x 17 fold out graphics, which still present limitations for depicting this large study area.
99	AGE-011 Topic: Errata	It is stated that the Tier 1 FEIS may not identify a preferred alternative (page 2-43). This seems to be an impediment to overall decision-making for the project. We suggest that adequate deliberations occur with public input fully considered, now, in order to move to Tier 2 with a preferred corridor and other technical aspects decided. CEQ prescribes that a preferred alternative be defined by the FEIS.	preferred alternative. As the process continued through the DEIS public hearing stage, comments received by the public demonstrated more of a preference for some alternatives over
100	AGE-011 Topic: Errata	Tables 4.36 and 4.36 (two) are confusing.	There is an error in the table numbering. The second table 4-36 on page 4-105 should be table 4-37 and the title should be changed to "Areas of High Engineering Complexity by SEHSR Alternatives". Table 4-36 is correctly titled. The areas of environmental and engineering complexity were two indices we developed to provide an order of magnitude indicator of the level of difficulty related to avoiding

Com	ment Number	Comment Comment	Response
			or mitigating potential environmental impacts and of designing and constructing the proposed alternatives. This error will be corrected through the use of errata sheets.
101	SPR-016 Topic: Errata	Map #3 – identify what S-line is.	This comment is in reference to the public hearing maps that were used at the DEIS hearings and that were on display at the 18 viewing sites for the DEIS document. All of the names for the railroad rights of way were listed on the map in their shorthand (acronym) format. The S-line refers to the former Seaboard Airline railroad that is now the CSXT-S-line.
(223330) (233330)	Tribute Control	Topic: Hazardous Mate	SEASTING CONTRACTOR - VOICE VIEW CONTRACTOR
102	AGE-011 Topic: Hazardous Materials	Table 4.11 does not contain any Virginia data, please explain.	The Virginia data table 4.11 was inadvertently omitted. It will be added just prior to the NC Data Table 4.11.
103	AGE-011 Topic: Hazardous Materials		has been added to the document. It will be located just prior to Table 4.1
104	STA-005 Topic: Hazardous Materials		A discussion of emergency response procedures for handling dangerous goods/hazardous materials incidents has been added to the document. It will be located just prior to Table 4.1 in the DEIS.
- (2)		Topic: Infrastructur	e
105	Topic: Infrastructure	considering the other modal entities and infrastructure necessary to get riders to and from the stations. It appears as though both States are committed to doing such facilities improvements. We would suggest that	station locations.

Comi	ment Number	Comment	Response
106	Topic: Infrastructure	It is also important that any needed subsidiary features such as stations, parking lots, maintenance facilities, etc. be considered as you evaluate the alternatives. Those features may ultimately involve greater potential impacts to wetlands and other resources than the rail line itself.	Existing stations would be used to the greatest extent possible, thereby minimizing potential impacts to wetlands and other resources. See response to comment number 105 AGE-011 above.
107	Infrastructure	Issues of importance include facilities for unboxed bicycles, bicycle access to stations, and bicycle storage at stations would be a plus. The biggest obstacle to increased public usage of bicycling transportation is perception of safety. This can easily and inexpensively be remedied through visible support and encouragement – signage, bike lanes, racks, publicservice announcements. Please include support for cycling in your plans and publications	Cycling facilities at stations will be considered during the design of specific stations. Station locations were not identified for this study. Therefore, specific design criteria for station amenities and signage were not addressed, and would be too detailed for a program level study. These items will be noted and considered in the design phase. See response 76 DUR-014.
108	Topic:	Adequate parking facilities must accompany each stop. Stops should also have local dining and shopping close by.	Station locations were not identified for this study. Therefore, specific design criteria for station amenities and signage were not addressed, and would be too detailed for a program level study.
109	Infrastructure	You mentioned that it wouldn't affect Amtrak's current route or routing. Does that mean that there's going to be a substantial amount of new track; or is there already enough track there to share between the two uses here?	Existing passenger rail service shares existing tracks with freight rail service. The addition of any service to existing track would require some additional track construction. The amount of new track would be based on actual and projected use by freight, existing passenger rail and high speed passenger rail services.
110		Are the consultants looking at the Acca to the Main Street Station?	Main Street Station in Richmond, VA has been identified as the potential station location for the SEHSR. Service to this station would proceed from ACCA Yard through Richmond to Main Street Station.
111		Would this substantial upgrading be required south of Main Street Station?	Improvements to the existing bridge and tracks south of Main Street Station would be required to accommodate the additional train traffic.
112	Topic: Infrastructure	would like to see the proposed SEHSR integrated with the other HSR corridors as well as other modes of transportation.	The SEHSR would provide through service to the northeast by connecting with the Northeast High Speed Passenger Rail. Future high speed rail corridors have already

Com	ment Number	Comment	Response
			been designated from Raleigh, NC south to Columbia, SC, Savannah, GA, and Jacksonville, FL, and from Charlotte, NC southwest to Atlanta, GA, Birmingham, AL, and New Orleans, LA. These corridors connect to other corridors at Jacksonville, FL and New Orleans, LA.
113	SPR-029 Topic: Infrastructure	Third track is necessary between Richmond and DC because of CSX traffic.	Existing train traffic between Richmond, VA and Washington, D.C. includes freight service by CSX and NS, Amtrak, and VRE. The existing track structure is at or above capacity. Therefore, the need for a third track is to improve the quality and timeliness of all existing services. This improvement has independent utility from the SEHSR project and falls under other studies by VDRPT
114	SPR-031 Topic: Infrastructure	Reopen the downtown Richmond station.	See response to comment number 110 RIC-027 above.
115	SPR-033 Topic:	Work on making improvements to existing lines between now and SEHSR completion.	Improvements to existing tracks and stations are the basis for the incremental approach. Both VA and NC are upgrading or installing crossing improvements, signal systems, and passing sidings as initial phases of these improvements.
116		Trains should accommodate unboxed bicycles and stations include secure bicycle storage (parking) facilities.	See response to comment number 107 CAR-010 above.
117	SPR-044 <i>Topic:</i>	Are you going to have ample parking, or are you supposed to find another way to get to the train?	See response to comment number 108 DUR-018 above.
200 (40)		Topic: Land Use	
118	AGE-011 Topic: Land Use	No table for the Category 2 land use could be found.	See response to comment number 132 AGE-011, Topic: Noise/Vibration
119	•	Are there any ongoing efforts to preserve the ROW of the old Seaboard Line south of Petersburg?	Both states (NC and VA) have a policy to protect the S-line right of way south of Petersburg. Since the tracks have been removed from the S-line section south of Petersburg all the way to Norlina, small sections of the right of way have been sold to private owners and have been developed. Other development in the area has encroached on the right of way or exists in close proximity to the right of way. For the most part, the

Comr	ment Number	Comment.	Response
		- Cli Communication and annual account and annual annual and annual annu	right of way is intact.
120		Corridor is needed and appropriate for long-distance (pedestrian and bike) trails that should be integrated with rai service. The DC to Fredericksburg, VA segment is aligned with the Potomac Heritage National Scenic Trail. The DC to Raleigh, NC segment is aligned with the East Coast Greenway. Land acquisition and project engineering should incorporate plans for paved shared use trails making for a multimodal travel corridor. Trails along active rail lines are physically and operationally feasible and might improve track maintenance.	At this early point in the design of the proposed service (conceptual engineering only), the level of design
		Topic: Natural Resour	ces in minute and the second s
121	Topic: Natural Resources	FEMA suggests coordination with the Floodplain Management Officer of the appropriate community to assure that the project meets the requirements of their floodplain management ordinance.	appropriate for the next phase, Tier II, of the project. During Tier II, as a
122	Natural	Table ES-3; Please indicate what unit the wetland impacts are in; acres, hectares, or number of wetland crossings.	The correct units (acres) are indicated on errata sheet.
123	Natural Resources	Table 4.38 has some conflicting data, such as Alt. J with far less floodplain impacts but high wetland impacts.	There is not necessarily a relationship between the number of floodplains impacted and the acreage wetland impacts. Also, not all rural communities participate in FEMA's floodplain mapping program, therefore at some locations floodplain impacts may be underrepresented.
124	Topic: Natural Resources	alternatives will cross many state and federal Scenic Rivers. The document does not clearly identify the magnitude of disturbance associated with these crossings. For example, it cannot be determined if new bridges, replacement bridges or refurbished bridges will be required at the Scenic River crossings. This is a potentially	The study corridors for this Tier I document cover a six-mile wide area along the entire 500-mile length. It is currently unknown where any river would be crossed and no location specific designs have been prepared. Analysis of the magnitude of disturbance at Scenic River crossing is not possible at this time. The potential impacts to Scenic Rivers would be identified and analyzed during the Tier II studies.

Comr	nent Number	₹% Comment > 1	Response
		detailed analysis of this issue in the	
10-		Final Tier 1 document.	
125		As you continue to develop the	Incorporating measures to avoid and
	•	project, regardless of the alternative,	minimize wetland impacts is of great
		measures to avoid and minimize impacts to wetlands should be	importance. If this process proceeds to Tier II documentation, these
		incorporated wherever practicable. In	factors along with concepts for
		addition, you should be developing	compensation would be addressed.
		concepts for compensating for	See page 4-10 for a discussion on
		unavoidable impacts to wetlands,	wetland mitigation measures
		since obtaining such compensation	including avoidance, minimization
		can be difficult in certain parts of VA	and compensation.
100		due to the availability of suitable sites.	
126		At the current level of detail, it is	Due to the 6 mile width of the study
	Topic: Natural	difficult to ascertain the extent of impacts to streams. While the number	corridors and inequitable level of small stream mapping available
		of river crossings are identified for	along the 500-mile project length, it
	Nescurces	each alternative, the number of small	was decided to only quantify river
		stream crossings is not.	crossings. The number of rivers
			crossed by each alternative should
			be indicative of its potential surface
			water impacts. If a preferred corridor
			is approved and detailed design
			alternatives are identified for Tier II studies, intensive small stream
			mapping would be completed and
			the impacts would be quantified.
127	PET-002	The number of at grade crossings and	
	Topic:	wetlands are high.	included in the Tier I DEIS was
	Natural		incorrectly counted (they included
	Resources		both existing crossings, and all
			crossings on the conceptual design,
		•	thus double counting most crossings.
			The new numbers for crossings are recorded in the errata sheets, and
			are approximately half the original
			number. The number of existing at-
			grade crossings is based on field
			observations of actual crossings
			during reconnaissance of the study
			corridors. There may be some
			variation in the totals done for the
	-		future detailed studies due to the
			inaccessibility of some private crossings or newly constructed public
			crossings of flewly constituted public crossings. Existing crossings listed in
			tables include all known crossings
			along the study corridor in both North
			Carolina and Virginia. Conceptual
			crossings listed in tables reflect
			upgrades, consolidations and
			closures of existing crossings.
		DC to Charlette NC	3.40

Comr	ment Number	Comment	Response
	Annual Second Control of Second Second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The number of crossings has been changed in Table 4.38 to reflect only the total number of existing crossings.
			The wetland acreages were calculated by looking at a 600' wide corridor. Actual construction corridors are likely to be under 100', thus the area of wetland impacts presented in this Tier I document are potentially six times greater than the final anticipated wetland impacts. No avoidance or minimization of impacts have been completed at this time. When more detailed alternatives are identified during Tier II evaluations, measures to avoid and minimize impacts to wetlands would further reduce the potential wetland acreage impacted.
128	Resources	I would also raise the issue of the Cape Fear Shiner which is a protected species, federally endangered species, which has its habitat or one of its few habitats in the reaches of he deep river which will be where the site will pass.	See page 4-45 for a discussion on the Cape Fear Shiner.
129	SAL-008 Topic: Natural Resources	Mr. Max Merrill, a conservation planner with The Land Trust for Central NC, offers a letter of concern for the environmental impacts of running the HSR through the southern route.	After a comprehensive analysis of the DEIS and the comments received on it, NCDOT and VDRPT have identified Alternative A (NCRR & Sline), modified with passenger connectivity to Winston-Salem (Alternative B) as the alternative that best meets the project's purpose and need while minimizing environmental impacts. The southern alternative is not recommended at this time.
130	Topic: Natural Resources	future evaluations, I would like to go on record as saying I'm really very curious to see what mitigation strategies or replacements would be offered because based on the scenarios projected, there is some implications that may come to bear in Johnston County.	We recognize the importance of incorporating measures to avoid and minimize wetland impacts. To be conservative, the wetland impacts presented in this Tier I document are potentially six times greater than final anticipated wetland impacts. If we move into Tier II, avoidance, minimization and concepts for compensation would be addressed. After a comprehensive analysis of
			the DEIS and the comments received
SELICI	P Washington	DC to Charlotte, NC	3-50

Com	ment Number	Comment is	Response
		Topic: Noise/Vibrati	on it, NCDOT and VDRPT have identified Alternative A (NCRR & Sline), modified with passenger connectivity to Winston-Salem (Alternative B) as the alternative that best meets the project's purpose and need while minimizing environmental impacts. The southern alternative through Johnston County is not recommended at this time.
131	AGE-011	Table 4.14: where is the data on	See response to comment number
	Topic: Noise/ Vibration	residential receptors? Related to this issue; explain how the number of sensitive receptors be so low when residential displacements are in the 300-400 range. Table 4.20: explain	132 AGE-011 under Noise/Vibration. Note the listing of sensitive receptors does not include residential (category 2) as explained in the response to comment number 132 AGE-011.
		why the number of sensitive noise receptors is so much higher in the 100-150 buffer widths than with the wider buffer widths. It seems that the wider the buffer the more receptors that would be found, If this has to do	Table 4.14 has been modified in the errata to include a footnote that states category 2 land uses are not included.
		with diminishing sound levels as distance from the tracks increases, please explain this.	The residential displacements are those dwellings that fall under the footprint of the conceptual alignment which is based on a 300' right-of-way, these dwellings would be removed and thus not be considered as receptors.
		: 0° 1: 0; 1: 0; 1:	The numbers in Table 4.20 do not reflect historic properties (properties on the National Register List or the Study List, these properties were included in Table ES-3 listing of Category 3 sensitive receptors) and are not cumulative. The properties listed for each new category
		** ** ** ** ** ** ** ** ** **	represent the increment over the previous in that bandwidth. Note the level of potential noise impact is related to the type of land use, the noise source as well as the distance from that source. Table 4.20 has been modified through errata to note that totals are not cumulative and
			potential historic, and residential receptors are not included.
132	AGE-011 Topic: Noise/ Vibration	Based on the Tier 1 document, it appears that noise and vibration are likely to be the central NEPA issues to be addressed. Yet from the document	Noise and vibration potential is minimized on the routes using the rural ACWR corridor (Alternatives C,

Comment Number	Comment	Response
	it cannot be determined which, if any, alternative performs best or worst in this regard. For example, there is no information about how many homes are within a certain distance from each alternative. This information is given for sensitive receptors, but not for homes.	serving over half the population of North Carolina which lives within 30 miles of the I-85 corridor (the NCRR corridor utilized by alternatives A, B, D, E, G and H). The rural southern routing would also fail to fully meet the project purpose and need in areas related to diversions from highway and air travel, overall energy savings, overall air quality improvements and increased mobility options for the elderly and disadvantaged.
i.		It should be noted that all alternatives that utilize routings where portions of track were previously removed (Alternatives A, B, C, D, E, F) have the potential to introduce new noise and vibration for buildings built within the last 15-30 years in close proximity to the tracks.
		Due to the program level of this document, and the fact that this document is looking at 6 mile wide study areas versus specific alignments, as well as the lack of current aerial photography for the entire study area, and the size of the study area being considered (over 1200 miles of existing rail rights-ofway), it was not deemed appropriate to run a detailed noise model or to identify individual residential
		receptors (Category II receptors) for the Tier I analysis. Other detailed studies of similar projects proved helpful in considering the potential for significant new noise or vibration impacts. Studies performed for the Chicago to St. Louis High Speed Rail matched the conditions of the Tier I SEHSR EIS in a number of important areas, mainly:
	DC to Charlotto, NC	-eight new passenger round trips daily, mixed with existing freight use -fossil fuel locomotives -train sets composed of 2 locomotives with 6 cars -max speed over most of the route at 110 mph (with a short

Comment Number Comment Response	onse
	ontinuous welded binted rail (mainly ons such as switches) ban and rural everal hundred
Using the assessment described in the FR manuals, the Chical study calculated existed noise estimates for within 250 feet of the and accounted for the change in train volus speeds throughout both passenger and The appropriate FR manuals were also analyzing potential to the control of the change in the change in train volus appropriate from the change in the change	RA and FTA ago to St. Louis isting and future receptors located ne track centerline, the projected ume and operating the corridor for d freight trains. RA and FTA used for
The noise study ide residential receptors institutional receptor of the track centerlia major sources of ra the steel wheel on s interaction; 2) engin fossil fuel locomotiv sounding at crossin speeds exceed 80 r source of noise was the steel wheels on study found that the increases in noise lewith all build alternative. He increases were all lewith the exception of one location, and the exposure at that one less that 60 dBA. Or less are generally total resulting noise 60 dBA are not ofte significant. Thus, e 3500 receptors ther noise impacts, and were no new vibrative.	rs and 71 rs within 250 feet re. The three ril noise were: 1) rsteel rail re noise from res; and 3) horn res
Because of the simi	ilarity in project

Com	ment Number	Comment	Response
133	Topic: Noise/ Vibration	If this level of detail is available on this criterion, why is there not similar detail on the noise (and air quality) impacts? (This refers to previous comment, which says "The extent of residential relocations defined in Table 4.38 is notable and needs explanation since the assumption is that the SEHSR would occupy existing ROW.")	131 AGE-011. Section 4.3.1.5 of the
134	Topic: Noise/ Vibration	with both increased freight traffic and	of this study, no monitoring of existing noise levels was undertaken, nor were any noise models run to determine future noise levels with the proposed SEHSR train operations with or without freight. This was outside the scope of this study and these types of more detailed noise analysis would be conducted during any Tier II environmental analysis. At
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Comr	nent Number	Comment	Response
			to determine if there were differences between the alternatives under consideration.
135	DUR-004 Topic: Noise/ Vibration		The extent of possible noise and vibration impact would greatly depend upon the distance of your house from the train operations, the nature of the construction of your house, how fast the train is going, soil conditions as well as other factors. If the proposed action proceeds to Tier II studies, a more indepth analysis of these impacts would be determined for a more specific alignment that may or may not be near your house. If you are on the alignment chosen for implementation of high speed rail, the potential environmental impacts including noise and vibration to sensitive receptors such as your house will be studied in detail in Tier II documentation. At that time potential mitigation will be explored.
136	Topic: Noise/ Vibration	crossing in Petersburg, VA. Will a wall be built for homeowners near the train track? Two homes are only 150 ft. from the track. What about the noise and vibration?	At this point in the study, we are at a very general level, and the need for
137	STA-002 <i>Topic:</i> <i>Noise/</i> <i>Vibration</i>	I am concerned about the noise level.	See response to comment number 135 DUR-004. Also note that preferred alternative does not impact this area.
138	Topic: Noise/ Vibration	RR track. It's currently used for	See response to comment number 135 DUR- 004. Also note that preferred alternative does not impact this area.

Comi	nent Number	Comment	Response
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		Topics Other	
139	AGE-003	Topic: Other NCDWQ (North Carolina Department	See the comprehensive analysis in
109	Topic: Other	of Water Quality) does not have single preferred alternative, but would like alternatives B, E, or H studied in detail	chapter 1 of this document for why E and H were eliminated. DWQ
			corridor of NC, and Alternative A also serves this corridor.
140	AGE-011	As set forth below, EPA rates the	The Tier I DEIS for the SEHSR
	Topic: Other		project is a program level document, which has included a high level of analysis of potential environmental impacts to facilitate a decision on the best of the 9 study areas that were considered for possible implementation of high speed rail. Based on this purpose, potential impacts were generally identified to provide information to comparatively evaluate the 9 study area alternatives. Only limited fieldwork was done, and existing and secondary data sources were heavily relied upon to create the database for the comparative analysis. In addition a great deal of previous study has already been conducted in the corridor and an extensive public involvement effort was conducted to get public input and issues. The large study area was more conducive to this more general approach. During
			potential Tier II studies, more detailed examination would be made of all potential impacts within a specified alignment identified within the recommended study area. At that time all needed fieldwork, on-site surveys, mapping and primary data would be developed to facilitate the identification, analysis and assessment of potential impacts. Mitigation measures and measures to minimize harm would also be developed. Thus this more extensive analysis you refer to would be conducted as part of the next phase of the project development if the decision is made to move forward on
			the proposed project.

Comr	nent Number	Comment Comment	Response
141	AGE-016 Topic: Other	Based on the information available at this time, including information provided in documents, meetings and public hearings attended by my staff regarding the subject project, we concur that either Alternative A or B are the alternatives that should be carried forward for further analysis.	See response to comment number 139 AGE-003.
237	GRE-020 Topic: Other	Please provide: compare projected NOI (Net Operating Income) on the two A vs. B.	In order to determine relative economic viability (between the different study areas), alternatives were examined based on the potential net operating contribution and the conceptual capital cost. Net Operating Contribution is the revenue generated less the operating expenses for each routing. Conceptual costs were based on using current cost factors applied to a conceptual engineering design (approx. 5-10% engineering level) with a 60% contingency added. The net operating contribution is comparative only, and not intended to predict actual future revenue, which would be dependent upon future operating conditions and requirements. The capital cost efficiency factor is the net operating contribution divided by the conceptual capital cost and multiplied by 1000. This gives a form of a benefit/cost ratio for comparison between the different alternatives. Both alternatives A and B have 2025 net operating contributions of almost \$25 million (in year 2000 dollars) and capital efficiency factors of almost \$10 million. These factors are slightly higher for Alternative A when
142	PET-009	You noted that there were copies of	compared to Alternative B. The Tier I DEIS and a set of maps
	Topic: Other	the EIS at – where did you say, at local locations? I note on here one was Chesterfield, and the other one was at a planning district office.	were made available at over 18 locations through out the study area. These locations were in cities where the public hearings were held. In Petersburg this included the Crater Planning District (1964 Wakefield Street-Petersburg, VA) and the Chesterfield County Transportation department (9901 Lori Road-Chesterfield, VA). In addition, at the

Comi	ment Numbe	Comment	Response
			Petersburg hearing the Director of Public works requested a copy for the City offices. This copy was forwarded to the City as requested.
143	STA-014 Topic: Other	I am concerned about the amount of travel of the SEHSR. (in the area around Star, NC)	A number of people at the Star Hearing expressed concern about the increase in train traffic that would occur should the SEHSR proposed service use the southern route (the ACWR RR right of way), which passes through Star. NCDOT and VDRPT have identified Alternative A (NCRR & S-line), modified with passenger connectivity to Winston-Salem (Alternative B) as the alternative that best meets the project's purpose and need while minimizing environmental impacts (hereafter termed "Alternative A-Plus"). This alternative could be studied further during potential Tier II environmental documentation efforts. The southern route is not recommended for further study at this point in time.
144	CAR-008 Topic: Other	Once the HSR service starts, how many trains will be in service on a daily basis? What type of trains would serve the southeast?	The travel demand model used for the SEHSR Tier I DEIS assumed four daily round trips between Charlotte, Raleigh, Richmond, Washington, and New York, and four daily round trips between Charlotte and Raleigh, for a total of eight daily round trips between Charlotte and Raleigh. For the analysis, each train is assumed to consist of two diesel locomotives, five coaches, and one cafe-lounge car.
145	DUR-023 Topic: Other	If the train goes through downtown Durham, how often will it stop? Has your initial estimate of 6 to 8 stops changed? If so, why?	At this point in the study the exact station stops and schedules have not been finalized. We have made some assumptions about potential station stops and schedules for the purposes of developing ridership estimates. Exact station locations would be determined as a part of any Tier II analyses. Our assumption is that this question refers to the number of trains that will daily stop in Durham, since there would only be one stop location in a given town. For purposes of our model, six to eight trains stopped in Durham depending on the day of the week.

Comr	nent Numbe	Comment	Response
146	HEN-020 Topic: Other	When would this project start? Completed?	Right now it is estimated that the proposed SEHSR service could actually be in service by 2010. This assumes that a build alternative would be chosen through the NEPA process, the needed funding would be in place when needed and that the service would be developed using the proposed incremental approach, which allows for the continued development of the service following a program of planned incremental improvements over time.
147	PET-011	Who would operate it once it is	The operator for the proposed project
	Topic: Other	completed? And where does Amtrak fit in, if you can address those?	at this point in time could be Amtrak. The proposed service would be put out to bid for interested operators to develop a proposal for offering this service.
148	RAL-012 <i>Topic:</i>	Your information on service features seems somewhat vague at this point.	At this point in time and in the development of the proposed
	Other	seems somewhat vague at this point.	SEHSR, we are at a very early
			planning level of detail. Thus we
			have developed conceptual, generalized operating scenarios for
110	/		the purposes of assessing potential impacts, possible operating and capital cost and potential revenues. These early figures would be refined if we move into the next phase (Tier II) of development when a specific alignment and potential station areas would be identified.
149	ROA-008 Topic: Other	Stops should be in the areas where there is the most likely ridership. Project objectives need to be prioritized.	At this point in the study, exact station stops have not been identified. We have made some assumptions about potential station stops for the purposes of developing ridership estimates. These assumptions are based upon locating the service to provide access to the highest potential ridership. Project objectives have been clearly stated in Chapter 1 of the DEIS –Purpose and Need. They have not been prioritized.
150	SPR-028	Particular attention and importance	There is already a great deal of
	Topic: Other	should be placed on inter-modal services when developing station locations such as rail/local regional bus lines/DC Metro rail – air carrier; and in all cases, long term vehicle	attention being paid to inter-modal connectivity with inter-modal stations and centers being developed by local communities along the potential SEHSR alignments in Charlotte,

Comr	nent Number	Comment	J Response
		parking at reasonable rates. Inter- connectivity between transportation modes should be a very high priority in planning this system.	renovated such as the historic Main Street Station in downtown Richmond.
151	SPR-041 Topic: Other	In this briefing I haven't seen what the general operating mode of this system is. In other words, how many trains a day do you run? Do you run two a day or do you run ten a day? This is important.	
152	WIL-009 Topic: Other	expense of this high-speed rail service we do not want to disrupt the freight service that currently exist on this line as well as the future service that we hope to see provided by future industrial development. We would like to call your attention and caution to that. As we all know, Amtrak is highly	Both NCDOT and VDRPT have as their goal the efficient operation of both passenger and rail service. It is very likely that any improvements made to existing railroad rights of way as a result of proposed HSR related improvements would upgrade both track and infrastructure conditions thus improving both operating speeds and conditions for passenger and freight trains, increasing capacity while easing congested areas within the right of way. Both NC and VA have active rail improvement programs that involve the rail crossing safety program and various track improvements including double tracking in these rights of way. Chapter 2 of the Tier I DEIS provides and overview of these improvements.
153	WIL-014 Topic: Other	Need to address congestion on route A; a new rail line will do this.	See response to comment number 152 WIL-009.
154	WIN-246 Topic: Other	already set the standard for being a fiscal liability, as the buses remain 75% empty. Indeed, a dichotomy exists within the DOT in terms of simultaneously advocating expenditures for both roads and bridges, while attempting to bring HSR to our area. And where will the envisioned myriad of passenger's park their cars? Undoubtedly, additional	and enhancing other modes of travel.

Comr	nent Number	Comment	Response
155	Topic: Other	My main concern is making sure there is enough support in the public's mind for the creation of such an enjoyable mode of transportation. I don't believe the simple announcing of its existence is sufficient to develop the ridership needed to survive. I hope to see more promotion of the advantages of rail travel in the public arena.	have been and would continue to be the presentation of factual information and collection of public and agency comments about the environmental and operational impacts of the alternatives under study. SEHSR public involvement activities would continue as the project moves into Tier II documentation. It would build upon the current public involvement program, which is described in Chapter 5 of the DEIS. • Public feedback recorded at workshops, through the project hotline, mail-in comment forms,
156	HEN-013	Will all the support for the projects	and in community leadership interviews. All comments received on the Tier I
150	Topic:	received in mailings also be considered?	DEIS have been considered in the analysis of study area alternatives. At each hearing, the public was provided the opportunity to give comments on the Tier I DEIS verbally, in writing, to a certified court reporter, or by mail within 10 days of
			the public hearing date. A total of 784

Comment Number		Comment	Response
			comments were received as a result of the Tier I DEIS public hearing process. Public comments were reviewed and analyzed to determine the public's preferences of study area alternatives. Thirty-nine comments expressed a study area alternative preference, favoring Study Area Alternatives A and B. About 83 percent of the comments on the DEIS were favorably disposed to the overall proposed SEHSR project. Only one percent of the commenting public opposed the project.
157	Topic: Other	Is there a possibility one (copy of the DEIS) could be at the city?	The DEIS was made available to the public and other interested parties at 18 locations, coinciding with public hearing sites. In Petersburg, the DEIS is available for review at the Crater Planning District Commission, 1964 Wakefield Street, Petersburg, VA. An additional copy was provided to Petersburg City so that the DEIS could also be viewed at a city office.
158	Topic: Other	At the equivalent hearing here in Richmond a year ago, more or less, I commented about the need to consider Hampton Roads. And I know that if I – if I read it correctly, there was no opportunity for Hampton Roads' participation in this process, say for the possibility that they might come to Emporia or Petersburg. Is Hampton Roads, which is a defined corridor, part of this process?	The US Department of Transportation designated the Southeast High Speed Rail (SEHSR) corridor in 1992. The designation identified Washington, DC, Richmond, VA, Raleigh, NC, and Charlotte, NC as the major urban areas to be connected. The SEHSR corridor has been extended to include Hampton Roads VA, as well as South Carolina, Georgia, Florida, and would connect the Northeast Corridor, the southeast, and the gulf coast. For the purpose of this Environmental Impact Statement, nine SEHSR Study Area Alternatives along the 500-mile corridor from Washington DC through Richmond, CA and Raleigh, NC to Charlotte, NC, were selected for review. High speed rail service to Hampton Roads is being considered under a separate study being undertaken by the state of Virginia.
159		Where would we get most of opposition?	A total of 784 comments were received as a result of the Tier I DEIS public hearing process. A review of these comments shows 650
CELIC	D Machineton	DC to Charlotte, NC	3-62

Comr	ment Number	Comment	Response
			comments expressing support for SEHSR, 11 comments expressing opposition, and 123 comments expressing neither support nor opposition. Of the 11 comments expressing opposition to SEHSR, the distribution is as follows: Winston-Salem, NC (1); Henderson, NC (2); Roanoke Rapids, NC (1); Durham, NC (1); and Star, NC (6).
			In addition, 39 comments from the DEIS public hearings expressed a preference for or against a specific study alternative. (Some of these comments expressed preferences for and/or against multiple study area
-			alternatives.) Four alternatives had one comment each of preference against them expressed: Alternative C, Alternative H, Alternative J, and Alternative F.
160	Topic: Other	The cumulative impacts of both the SEHSR and the freight traffic usage of the corridors is a key analysis, which was not addressed in this document.	The cumulative impacts of passenger and freight use of the corridor were generally addressed because this is a program level document. The issue is discussed in various locations through out the Tier I DEIS including Chapter 1 on Purpose and Need. The extent of the joint activity level is described in detail in section 2.4.1 of Chapter 2 (Description of Study Area Segments) and also in section 4.3.1.6 (Transportation Impacts) of Chapter 4. These potential impacts would be more thoroughly addressed in the Tier II documentation when we have a more specific alignment identified and when operating scenarios have been refined including more information from the interfacing with the freight operators during that project phase.
161	SPR-038 Topic: Other	Is there really that much traffic between Charlotte and D.C. to necessitate something like this?	The future of continued, good mobility must include a variety of travel modes that provide the public with viable options. We must look at maintaining our current roadway network, as well as building and enhancing other modes of travel. The USDOT has encouraged the development of other modes through the provision of federal funding

Comment Number	Comment. *	Response
Topic: Other		grants for the development of HSR and other transit modes. As travel by non-highway modes becomes more available, and as air quality problems increase, rail becomes a more efficient and effective way to travel for more people. In addition, existing rail traffic congestion in the Washington DC to Charlotte corridor is one of the reasons for some of the current planned improvements by both VA and NC.
	·	All of the 9 Study area alternatives examined in the Tier I DEIS are projected to carry over 1 million passengers per year by 2025. Under current rail passenger service, annual rail ridership along the corridor connecting Washington, DC with Charlotte, NC is projected to grow from its current level of 418,000, to 498,000 in 2015 and to 543,000 in 2025 or slightly more than one percent per year.
		The proposed SEHSR program addresses the existing rail passenger service problems by improving travel times and increasing capacity, while providing a safer and more efficient mode of travel as compared with the private motor vehicle. The Washington, D.C. to Richmond, Virginia Passenger Rail Study found that if travel times between Washington and Richmond could be reduced to 90 minutes, ridership in the I-95 corridor would triple by 2015. The proposed SEHSR service would reduce travel time from Washington, DC to Charlotte from the current ten hours to an estimated six to seven and one half hours. The proposed SEHSR service is anticipated to impact the travel corridor by diverting trips from auto and air, and by producing some induced travel (additional trips that individuals would not otherwise make), thus improving overall mobility within the travel corridor. The proposed service could

Comr	nent Number	Comment To A	Response
			from air and auto by 2015. These diversion numbers illustrate the proposed SEHSR program's role in the creation of a balanced transportation system.
	A CONTROL PROPERTY OF THE PARTY	Topic: Ridership	
162	AGE-011 Topic: Ridership	Topic: Ridership The data tables regarding typical diversion rates are difficult to interpret (page 1-12). Table 1.1 defines auto and air passenger diversions and the total ridership anticipated in 2015 and 2025. How many auto trips are eliminated by this diversion? In addition, the documents indicates that over 1,000,000 passenger trips would be diverted from air and automobile. These numbers sound large, but are they really when compared to an interstate which may be carrying 60-80 thousand vehicles per day?	The Build Alternative refers to the proposed SEHSR alternatives which are represented by one ridership number from the 9 alternatives, in this case the highest ridership number of the 9 alternatives. The 1999 ridership number is blank for the alternatives because the SEHSR service did not exist in 1999. The 1999 ridership number for the No Build is the 1999 ridership on conventional passenger rail service in the corridor. The additional ridership number column refers to additional rail ridership beyond the 2015 and 2025 projected ridership levels. This additional ridership includes induced trips (additional trips that individuals might not otherwise make), and those trips diverted from auto and air. In 2015 those trips diverted from auto are estimates at 779,500; in 2025 auto diverted trips are estimates at 899,300. Diverted trips form auto and air were provided because congestion and capacity problems
			exist for both roadway and the air travel networks, which could be improved by the implementation of the proposed HSR service. In comparison to the number of vehicles carried on the interstate, the 1 million passengers diverted is not a large number, however any reduction in the number of trips on the network should be of benefit. In addition, diverted trips means travelers are trying rail transit for some of their trip making needs, which could lead to increased rail ridership if the experience is successful and more future trips might be taken on rail.

Comr	nent Number	Comment	Response
163	AGE-012 Topic: Ridership	As stated in my previous comments, I do not believe that Alternative C has been given equal consideration in the annual ridership totals. I believe that the totals for the other alternatives contain the projected numbers for riders who will be getting on and off the anticipated local stops between Petersburg and Raleigh and also between Raleigh and Charlotte. These would be those riders who have the option of traveling by high-speed rail or by the EIRPS. And, to some extent, the numbers for riders north of Petersburg whose destinations are somewhere between Petersburg and Raleigh and to a lesser extent between Raleigh and Charlotte would also be included. Either these numbers should be factored out of the totals for the other alternatives or factored into the total for Alternative C. If my assumption on annual ridership is true, then the amount for net operating income will also increase for Alternative C and become more in line with the other alternatives. Even though it may be explained in the Draft Tier I EIS and I missed it, I will point out that whereas the annual ridership	however, tends to dilute the differences between options and often includes revenues from passengers who never board an SEHSR train. The same is true for the "Year 2025 Ridership." The figure includes all passengers on all trains operating between North Carolina and Virginia in 2025, which once again minimizes the differences between route alternatives because SEHSR ridership is only part of the total forecasted patronage for all trains. The comparisons between talternatives A and C, once the statistics for all the other NC/VA trains are removed, are more marked than before. There is 33% greater ridership and 27% greater revenue generated on Alternative A than on Alternative C. When all other trains are removed, Alternative C's inability to generate equivalent levels of ridership and revenue owing to its
05110	D 14/1-1	DC to Charlotte, NC	3_66

Comr	ment Number	Comment	Response
			Alternative A produces revenues that are 27% percent greater than Alternative C and ridership that is 33% higher. This efficiency in operation is why Alternative A produces a net income of \$22,497,000 as compared to a net income for Alternative C of \$6,913,500.
164	AGE-012	I recommend that Table 2.17 be	Unlike the two minute average
	Ridership	revisited to assure the accuracy and equal consideration and comparison of all factors for all alternatives. In my opinion, the totals for Alternative C are potentially understated for annual ridership, net operating income, and trip diversions. Additionally, there may be a greater difference in average travel time separating Alternative C and the next closest alternative. This exhibit plays an important part in the selection of the preferred alternative.	spread in travel times between Alternative A and Alternative C shown in Table 2.17 there is in fact, a 28 minute difference in travel times between the fastest trains in Alternative C and the slowest trains in Alternative A between Raleigh and Charlotte. The time difference between the fastest trains on each route is 18 minutes and the difference for the multistop trains varies from 18 to 23 minutes. The revenue, ridership and operating cost forecasts were derived using these schedule patterns developed by the consultants in January 2000, and not the average trip times shown in Table 2.17. While the travel times between Raleigh and Charlotte vary measurably between Alternative A and Alternative C, Alternative A boards more passengers and generates more revenues than Alternative C because of its significantly larger population base. Bypassing large communities such as Durham, Burlington, Greensboro and High Point in exchange for a stop at Sanford NC, puts Alternative C at a distinct disadvantage in generating ridership and revenues
			when compared to Alternative A.
165	Topic: Ridership	I would also like to point out when considering cumulative impacts, the numbers for Alternative C improves. By this, I mean when considering ridership north of the study area (DC).	
SELIC		If my starting point is in Boston or New DC to Charlotte, NC	Alternative A and Alternative C's

Comr	nent Number	Comment	Response
		York, and I know that the train I get on will have possibly no stops south of Petersburg before I get to Raleigh, or only one stop (Raleigh) before I get to Charlotte, I'll take that train verses one that may have three or more stops.	and Charlotte. Between Washington DC and Richmond VA it is assumed both Alternative A and Alternative C
			This changes dramatically in Raleigh. Alternative A trains precede west over the NCRR with potential stops in seven intermediate communities (for our modeling purposes). There would be eight daily one-way frequencies over this 174-mile NCRR route segment. It is assumed for estimation purposes that two express trains would stop only in Durham and Greensboro, while the other six trains would make a maximum of four intermediate stops with each en route community being served at least three times a day in each direction.
166	Topic: Ridership		While the travel times between Raleigh and Charlotte vary measurably between Alternative A and Alternative C, Alternative A boards more passengers and generates more revenues than Alternative C because of its significantly larger population base. Bypassing large communities such as Durham, Burlington, Greensboro and High Point in exchange for a stop at Sanford NC, puts Alternative C at a distinct disadvantage in generating ridership and revenues when compared to Alternative A.
167	Topic: Ridership	Some factoring may also be needed for the net operating income on Alternative C. The trip diversion totals are particularly confusing to me. The	The fact that the percentage increase in ridership between Alternative A and Alternative C is substantially higher than the percentage increase

Comment N	umber	Comment -	Response
		destination was to at least Raleigh, Alternative C would be chosen. It is the shortest and it has the fewest stops, potentially only one south of Petersburg. It seems to me that for the current totals to be accurate, the	than for Alternative A because Alternative C's route has a smaller population base, serves no significant en route communities between Raleigh and Charlotte and therefore has less potential to cause
168 AGE- Top Rider	oic: rship	unusually low for annual ridership, net operating income, and trip diversions, when compared to the others. These are three important categories in determining the preferred alternative. The only reason for these differences I can come up with is the additional riderships that would be picked up by all of the other alternatives on the EIRPS lines south of Petersburg that Alternative C has separated from and I don't believe that would explain it fully.	Alternative C and the slowest trains in Alternative A between Raleigh and Charlotte. The time difference between the fastest trains on each route is 18 minutes and the
169 DUR- Top Rider	ic: ship	In your calculations of annual trip diversions, are you estimating only trips between Charlotte and DC or does it include stops in between?	It does include trips in between Charlotte and Washington.
170 GRE- Top Rider	-004 nic: rship	If I want to build a transit system designed for maximum use/ridership, I would follow the current interstate highway system. Following the interstates and the local major	While use of the interstate system initially appears to present some potential advantages, it also presents some very serious challenges, primary of which is where in the interstate right of way do we place

Comment Number Response Comment more of a door-to-door type of transit the transit line. If it is in the median it far more effective than following the needs to be elevated, which will existing RR corridors. ... If you increase the cost of construction and Topic: personally want to travel from your also pose significant issues with Ridership office in Raleigh to Charlotte, will you interstate bridges and overpasses. really want to get on a HSR that goes Safe transfer of passengers to the through downtown Burlington, then stations, and the location of parking Gibsonville, and Whitsett just to name are also significant issues. If the a few towns in our area? What are the system is at grade along the side of risks in terms of down time/delays the interstate, it will potentially have from at grade accidents, traffic to be grade separated at each congestion, and little point to point interchange or entrance and exit, and capability. What is the convenience access questions are challenging factor of going through such Stations must be logically placed to destinations? Selling the cost issue to give riders convenient enough the public is tricky, I concede, but what access to make the system attractive about a rail system that follows RR to use, and there must be sufficient tracks and never gets to high speed? interstate right of way for the Who is going to patronize such a placement of transit. It may not be system? How much is it going to cost accurate to assume that all of the to elevate or build on the surface a land adjacent to the highway is whole new set of tracks to handle an publicly owned and available for use Acela or a mag lev train? You may as at low or no cost. Both the interstate well compare that to taking advantage and the railroad rights-of-way have of the highway corridors to understand the advantage of being established the differences. What about travel corridors. In addition a number automation vs. having to man each of the small towns, such as those train? How does that cost compare? you mention in your letter actually What about 30 year operating grew up around and because of the numbers? At the end of the day, I am railroad. Some of these towns are extremely concerned that if we follow interested in having rail service the path of the current rails, and if we reinstated because of the potential decide to use surface rail whether economic benefits. regular or high speed, or if we decide the whole high speed line must be We are not always in the position of elevated and we still follow the current having to build a whole new set of rail lines, we end up with a system tracks. In some cases we would be costing far more over a 30 year period irnproving existing tracks, of operation as compared to a straightening curves or adding a monorail system built from the outset second track. along the highway corridors and major thorough fares. Again, ridership is the We do not have 30-year operating key to this, nothing more, nothing less, costs and some of the other I have a map showing such a system extensive cost information you for the triad area that incorporates a discuss in your comments. This is an high speed line from Raleigh to learly planning study with a 20-year Greensboro, and on to Charlotte, plan horizon. We have completed a using the interstate ROW for much of conceptual engineering effort the NC route. I also have on the same (approximately 10% engineering). map a triad regional system that We also do not have a specific breaks off from and ties back into the alignment chosen at this point. We NC line. I think you would find the would need a lot greater level of

layout compelling. The goal of either

engineering detail in order to develop

Comment Numbe	r Comment	Response
10310.7001008680738	of my two lines is to maximize	the kind of cost numbers you
	ridership. Using the current path of the	
	rail lines will do very little to promote	
Topic:	ridership. I therefore am curious as to	, ,
Ridership		distance, urban, commuter line haul
	line. Can you explain? And to that	monorail systems with which to
	end, I am offering you a copy of my map laying out the NC/triad area lines	evaluate your proposed concept.
	for your study. Please let me know if	Our initial ridership and revenue
	you are interested. As I said, I think	projections are strong and most of
	you will find the map compelling in	the proposed alternatives with the
	terms of potential ridership, 30 year	exception of a few segments
	operating costs, increased public	generally serve the population
	confidence in mass transit as an	centers. Census data from 1990 to
	alternative to the car, safety, etc.	1999 shows that the metropolitan
		areas along the proposed SEHSR
		corridor experienced rapid population growth. The Washington, DC-MD-
		VA-WV Metropolitan Statistical Area
		(MSA) grew 12.2%, the Richmond-
		Petersburg, VA MSA grew 111.1%,
		the Raleigh-Durham-Chapel Hill, NC
		MSA grew 28.8%, the Greensboro-
		Winston-Salem-High Point, NC MSA
		grew 12.3%, and the Charlotte-
		Gastonia-Rock Hill, NC-SC MSA
		grew 22.0% during that period. The population within the Richmond to
		Washington portion of the study area
		is expected to grow from about 2.8
		million in 1990 to more than 3.5
		million in 2014. Approximately one-
		half of North Carolina's population
		lies within the "Piedmont Crescent"
		corridor between Raleigh and
		Charlotte. In addition, the population in the Piedmont Crescent is expected
		to grow over one-third in the next 20
		years and by over 50% in the next 30
		years. The population within the
		North Carolina urban corridor
	,	represented by Raleigh-Durham-
		Chapel Hill, Greensboro-High Point-
		Winston Salem, and Charlotte-
		Kannapolis is expected to increase
		by 36 percent between 1990 and 2010. Thus the population centers in
		the region should be well served by
		the proposed SEHSR alternatives.
		, ,
171 GRE-010	For this project to be viable, the route	Six of the nine SEHSR alternatives
Topic:	must run through Greensboro (and	under consideration serve the
Ridership	maybe Winston-Salem) in order to	Piedmont Triad area. Of those six all

Comr	nent Numbe	Comment	Response
	1	attract ridership. It is inconceivable that 1.2 million people would be bypassed.	would serve Greensboro directly and three would serve Winston-Salem directly.
172	GRE-020 Topic: Ridership	Please provide: Impact as a percentage of the proposed system or highway & air travel projected out to 2025	The proposed SEHSR service is anticipated to impact the travel corridor by diverting trips from auto and air, and by producing some induced travel (additional trips that individuals would not otherwise make), thus improving overall mobility within the travel corridor. By 2025, the proposed SEHSR service is projected to divert up to 779,500 trips from the highway and 278,700 from air and result in up to 52,950 induced trips.
173	GRE-020 Topic: Ridership	Please provide: impact of true high speed and elevated rail along the interstates would have on highway and road travel to 2025	See response to comment number 170 GRE-020. We have no information on elevated rail along the interstate system.
174	RAL-014 Topic: Ridership	The plans should be flexible enough to provide high frequency service – at or near the levels of the northeast corridor. Conservative ridership estimates are fine for this process, but the capital expenses and operating expenses should be at a higher level of frequency.	proposed SEHSR is being designed to connect with the Northeast corridor to provide a high level of
175	ROA-013 Topic: Ridership	Why don't the railroads concentrate more on developing the freight traffic rather than the passenger traffic. If we could develop a rail system that took over even 50% of the freight that now travels by trucks on the highway then our highways would be back where they used to be for the passenger cars.	We cannot speak for the railroads nor do we know their specific long

Comr	ment Number	Comment	Response
	g, 00001 ggdorstoon		Equity Act for the 21 st Century (PL 105-178, Section 7201). ISTEA stated,
			"It is the policy of the United States to develop a National Intermodal Transportation System that is economically efficient and environmentally sound, provides the foundation for the Nation to compete in the global economy and will move people and goods in an energy efficient manner."
		·	The high speed rail corridor program was established by ISTEA as one component of this intermodal system. In 1992, the USDOT designated the SEHSR Corridor one of five original national high speed rail corridors. Further extensions to the corridor added connections south into South Carolina, Georgia, and Florida.
176		Will stops be prioritized according to ridership or trip diversions?	Not necessarily, although the level of projected ridership at a station is a factor to be considered in the development and location of stations.
177		Is ridership or travel time a higher priority?	The evaluation criteria were not ranked. However in order for a proposed service like SEHSR to be successful it must offer some sort of travel time-savings in order for people to consider using it for their travel needs. Thus travel time-savings is an important factor to be considered.
178	Topic: Ridership	When discussing diversions from auto to rail and air to rail, why not also consider rail to rail diversions that may add to ridership numbers	would not serve all of the same locations as conventional rail. Any station that currently has Amtrak (conventional) service would continue to receive that service. Thus the markets or geographic areas being served by the two services may not be the same. The plan is to develop a network of passenger rail
	P Woobington	DC to Charlotte NC	service that would be complementary, not competitive. For example if I traveled from Washington DC to do business in the Raleigh/Durham area, ideally I could take high speed rail to Raleigh/Durham and transfer to the

Comment Num	per Comment	Response 4
		planned regional rail system to get around the area. Thus the rail to rail trips should not be diverted, they should be transfers.
179 SPR-02 Topic: Ridersh	rail travel is best for the 170-200 mile	One of the premises for the high speed rail service concept is that it can serve the 100-300 mile trip more effectively than the airlines. A number of people that participated in the SEHSR public involvement program expressed their frustrations with both the cost and the difficulties of trying to use air travel for trips of this nature. Most of the air trips in this distance range required a transfer/plane change and out of direction travel, as well as long security delays. Connections were difficult and expensive. Air travel also may involve a long trip by auto to get to an airport that would provide the service. For example USAir is stopping all service out of the Wilson/Rocky Mount airport, requiring residents to commute to the Raleigh Durham airport (50 to 70 miles away) in order to get a flight to a location that might be 300 miles away and require a change of
180 SPR-03 Topic: Ridersh	his letter on 10/17/01. In the letter he	planes. The ridership and revenue forecasts (October 2000) for the SEHSR alternatives were developed using information assembled for the SEHSR Study and Market Demand Analysis (KPMG-1996) the Piedmont High Speed Corridor Ridership and Revenue Potential Study Phase I-Raleigh to Charlotte Corridor (PHSC- by KPMG November 1996). Complete documentation of the inputs is contained in these reports. The zone system, travel data, and existing service characteristics for rail and other modes from these studies were used in the analysis of improvements in the SEHSR corridor. The spreadsheet model used in this analysis (Mr. Tennyson's) represents a modified version of the model used in the PHSC study. This demand

Comr	nent Number	Comment.	Response
			forecasting model is based on coefficients describing sensitivities to travel cost, travel time, frequency and other modal characteristics in the corridor. These coefficients were originally developed using the database created for SEHSR.
			The model used for this study was revalidated to match Amtrak 1999 fiscal year ridership on its southeast train services. This model also addresses markets within Virginia and the Northeast Corridor, which are also served by the southeast trains. In addition, time of day schedule sensitivity improvements to the model included in the 1998 analysis of extending the Piedmont train to Atlanta was retained. These appropriately discount the market for middle of the night departures on the
181	SPR-039	Is there any way we can know if the	Crescent, and Silver trains. The ridership and revenue
	Topic:	count that you've talked about is	projections were based upon Amtrak
	Ridership	based on airline fares, or bus fares, or in between Amtrak fares. I wondered if the fares were based on airline fares, bus fares, Amtrak fares, or something in between.	
182	SPR-039	You mentioned travel locally –	Passenger miles were not generated
	Topic:	because of the passenger count it	as a part of the ridership projections
102	·	traveled Winston-Salem to Greensboro, you would have nothing even if it is a big number. So is there any way we could get passenger miles? The passenger count is sort of meaningless, because you don't know if it is a short trip, 27 miles, or a 300 mile trip, which makes a big difference in the income.	
183	Ridership	, , ,	addresses the existing rail passenger service problems by improving travel times and increasing capacity, while providing a safer and more efficient mode of travel as compared with the private motor vehicle. It could serve

Comr	nent Number	Comment	Response Response
		you know, attend a meeting – you know, get on a train in the morning, attend a meeting, and get on a train back home at night. And clearly, Washington to Charlotte would fail that test very clearly. You know, maybe Richmond to Raleigh would probably pass. Was that taken into account with the ridership presumption and the diversion from air?	triple by 2015. The proposed SEHSR service would reduce travel time from
184	SPR-045 Topic: Ridership	Passenger counts are meaningless. We need to know passenger miles and/or fare revenue.	See response to comment number182 SPR-039
185	WIL-011 Topic: Ridership	Ridership: I question the route between Raleigh, Henderson and Richmond that has projected higher ridership than Raleigh, Rocky Mount and Richmond route. Please explain assumptions in traffic model. The model does not seem to reflect reality of route 2 because route 2 has higher concentrations of and serves more people.	There is more population on the A line in NC than on the S line, however the S line is a faster connection between the population centers of NC and the Northeast corridor, thus generating more overall riders, and longer average trips with their associated higher profit margins.
186	WIN-266 Topic: Ridership	The 2000 census reveals that the Greensboro-Winston-Salem-High Point metropolitan statistical area is the 37th largest in the US, with a population of over 1.25 million residents. The Piedmont Triad MSA is larger than Raleigh-Durham, ranked 41st with a population of 1.19 million residents, and Richmond-Petersburg, ranked 51st with a population of 997,000 residents. Greensboro-Winston-Salem-High Point follows Charlotte (ranked 34th), New Orleans (ranked 35th), Salt Lake City (ranked 36th) and is ranked ahead of Austin, TX (38th), Nashville (39th) and Providence (40th). One would never skip a New Orleans, Salt Lake City, Austin or Nashville in a high speed rail	See response to comment number 171 GRE-010.
	<u> </u>	corridor. It would be a travesty to skip	3-76

Comr	nent Number	Kar S Comment	Response
		the Piedmont Triad Region.	A. 30-30-4-30-4-30-4-4-30-4-4-4-4-4-4-4-4-4
2468] 2794 (4664)		Topic: Safety	
187		Safety: All train operations on CSX property must be conducted with a paramount commitment to safety. To that end, we believe that any mixed passenger-freight train operations should not operate at speeds exceeding 90 mph on tracks owned by CSX. Separate and dedicated lines could achieve higher speeds. We also believe that the elimination of grade crossings is a major issue that needs to be addressed in a comprehensive manner prior to the initiation of high speed service.	share tracks. Cooperation and commitment to safety by all parties would be required for safe operation of all services. Elimination of highway-railroad atgrade crossing hazards is essential to safe high speed rail operations. Conceptual capital improvements for the SEHSR grade-separates highway-railroad crossings where possible, installs quad gates, or consolidates/closes at-grade crossings. Most crossings are upgraded in the conceptual capital
188	Topic:	A high speed rail through downtown Durham raises concerns about safety	improvements. The conceptual capital improvements to the high speed rail corridor provide safe access across railroad right-of-way. Impacts to specific properties cannot be determined in a program level study.
189	Topic:	safe for me or my family.	Thank you for your comment. During the Tier II studies all planning efforts will be made to provide a safe transportation system both for the riders and for those located near the system.
190	Topic: Safety	which the trains will come through downtown? At grade? Via a tunnel? Via a "ditch" like in Gastonia, NC?	Any Tier II study would provide further detail of highway-railroad crossings and associated improvements. Specific construction methods cannot be determined in a program level study.
191	Topic:	there are going to be some problems if you try to cross over the track when a train is coming	

transportation, has been analyzing their safety systems since the tragedy of September 11. This process will continue for the foreseeable future. 194 ROA-018 Topic: Safety Safety Topic: Safety SPR-025 Topic: Safety STA-005 Topic: Safety STA-005 Topic: Safety STA-015 Topic: Safety STA-016 The increased rail speed will be further jeopardizing our safety. Things should be slowing down rather than speeding up. The increased rail speed will be further jeopardizing our safety. Things the Tier II studies all planning efforts will be made to provide a safe transportation system both for the riders and for those located near the system. I recommend maximum use of bridges conceptual designs of highway railroad crossings included grade erossing seems too decrease public support for rail, no matter how unfairly. STA-015 Topic: Safety STA-016 Topic: Safety STA-017 Topic: STA-012 Topic: STA-018 I am concerned about the safety of my The safety of individuals or families is not a factor of train speed. It is the	Comn	nent Number	Comment	Response
193 ROA-017 Topic: Safety ROA-018 Topic: Safety SPR-025 Topic: Safety SPR-025 Topic: Safety SAfety SPR-025 Topic: Safety STA-015 ROA-018 Topic: Safety SPR-025 Topic: Safety STA-015 STA-015 Topic: Safety ROA-018 The increased rail speed will be further jeopardizing our safety. Things should be slowing down rather than speeding up. ROA-018 Topic: Safety SPR-025 Topic: Safety STA-015 Topic: Safety STA-015 Topic: Safety STA-015 Topic: Safety ROA-018 The increased rail speed will be further jeopardizing our safety. Things should be slowing down rather than speeding up. ROA-018 Topic: Safety Amtrak, along with all other modes of transportation, has been analyzing their safety systems since the tragedy of September 11. This process will continue for the foreseeable future. Take ty systems since the tragedy of September 12. This process will continue for the foreseeable future. Take ty systems safety and public be further jeopardizing our safety. Things will be made to provide a safe transportation system both for the riders and for those located near the system. Roa-018 Topic: Safety STA-012 Topic: Safety STA-013 Topic: Safety STA-013 Topic: Safety The I-85 corridor is too busy, congested. Thank you for your comment. The I-85 corridor is too busy, congested.	192	Topic: Safety	our community with rail is establishing a secure crossing, properly handling the crossing for traffic flow in the areas of the most accidents, I believe. What does HSR require in terms of upgrades of these crossings to be as safe as they can be, and has it been considered in this study and how it affects different economic areas	would be based on existing and projected highway traffic volumes as well as existing and projected railroad traffic volumes. These volumes would determine the requirement for grade separations, quad gates, crossing consolidations, or crossing closings. These improvements have been incorporated in this study. Economic impacts are a function of development and labor more than crossing safety. These impacts also vary with the type and variety of development in very small segments
further jeopardizing our safety. Things should be slowing down rather than speeding up. SPR-025 Topic: Safety SPR-025 Topic: Safety STA-012 Topic: Safety Topic: Safety STA-012 Topic: Safety Topic: Safety Topic: Safety STA-012 Topic: Safety	193	Topic:	evaluated due to the September 11 th	Amtrak, along with all other modes of transportation, has been analyzing their safety systems since the tragedy of September 11. This process will continue for the
SPR-025 Topic: Safety Topic: Safety Topic: Safety SPA-005 Topic: Safety I recommend maximum use of bridges Conceptual designs of highway railroad crossings included grade separations where possible, quad gates with flashing lights, and consolidating/closing the remaining crossings where practical. Thank you for your comment. During because Montgomery County has had a lot of train derailments. Thank you for your comment. During the Tier II studies all planning efforts will be made to provide a safe transportation system both for the riders and for those located near the system. See Chapter 1 of this document for further comments on safety of rail versus highway travel. The safety of individuals or families is not a factor of train speed. It is the responsibility of individuals to respect and yield right-of-way to all trains. The I-85 corridor is too busy, congested. Thank you for your comment. The safety of individuals to respect and yield right-of-way to all trains. Thank you for your comment.	194	Topic: Safety	further jeopardizing our safety. Things should be slowing down rather than	will be made to provide a safe transportation system both for the riders and for those located near the
Topic: Safety We are also concerned about safety because Montgomery County has had a lot of train derailments. Thank you for your comment. During the Tier II studies all planning efforts will be made to provide a safe transportation system both for the riders and for those located near the system. See Chapter 1 of this document for further comments on safety of rail versus highway travel. Topic: Safety STA-012 Topic: Safety Thank you for your comment. During the Tier II studies all planning efforts will be made to provide a safe transportation system both for the riders and for those located near the system. See Chapter 1 of this document for further comments on safety of rail versus highway travel. The safety of individuals or families is not a factor of train speed. It is the responsibility of individuals to respect and yield right-of-way to all trains. Thank you for your comment. Thank you for your comment.	195	Topic: Safety	or tunnels, and minimum grade crossings for safety and public perception. Every train-vehicle accident at a grade crossing seems too decrease public support for rail, no	railroad crossings included grade separations where possible, quad gates with flashing lights, and consolidating/closing the remaining
197 STA-012 am concerned about the safety of my The safety of individuals or families is not a factor of train speed. It is the responsibility of individuals to respect and yield right-of-way to all trains. 198 STA-013 The I-85 corridor is too busy, congested. Thank you for your comment. 198 STA-013 The I-85 corridor is too busy, congested. Thank you for your comment.	196	STA-005 <i>Topic:</i>	We are also concerned about safety because Montgomery County has had	will be made to provide a safe transportation system both for the riders and for those located near the system. See Chapter 1 of this document for further comments on
Topic: congested. Safety		Topic: Safety		The safety of individuals or families is not a factor of train speed. It is the responsibility of individuals to respect and yield right-of-way to all trains.
	198	Topic:	congested.	Thank you for your comment.

Comr	nent Number	Comment	Response
199	RIC-029	Once these things get into place for the high speed from DC to Richmond, what is the time frame?	It is estimated that the proposed
COLEGE CO	ALCOHOL: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Topic: Socio-econom	nic
200	AGE-011 Topic: Socio- economic	Table 4.24: Explain how population density was measured. Is it persons per square mile or kilometer? Moreover the 5000 plus or minus number for average population density seems very high for what is a largely rural corridor.	In reviewing this comment, a calculation error was found that resulted from incorrectly including the northern segment with all other segments for study area alternative data comparisons. The northern segment is common to all study area alternatives and was originally separated out from the other route segment data. A revised Table 4.24 has been prepared. Since the error had a proportional effect on each study area, changes to Table 4.24 do not alter any conclusions or findings presented in the DEIS. The methodology for determining average population density is explained below.
	Tonio		Average population density is measured in population of the 300-foot buffer (150 feet from each side of the center line of the existing or proposed railway) per square mile. To determine average population density, the following steps were followed in the GIS analysis for each study area alternative: 1. Geocode the SEHSR route combinations. 2. Calculate a 300-foot buffer impact area by route combination.
·	Topic: Socio- economic		3. Identify the 1990 Census Block Group (CBG) data sets that intersect the impact areas. [Note: The CBG was

Comment Number	Comment	Response
		used because the resolution of these data sets is commensurate with the overall Tier I study objectives. Moreover, the Census Data is comprehensive, demographic, primary source data and is readily available for all segments of the study area by Census Block (for race and ethnicity) and for Census Block Group (for income).] 4. Calculate an area ratio for each intersection of CBG and 300-foot buffer – the area of the 300-foot buffer segment through the CBG (sq. miles) divided by the total area of the CBG (sq. miles). 5. Calculate population for each intersection of the CBG and 300-foot buffer – total population of the CBG multiplied by area ratio (#4). 6. Calculate the population density of each intersection of CBG and 300-foot buffer – intersection population (#5) divided by 300-foot buffer impact area (sq. miles) (#2). 7. Calculate average population density – sum all intersection population densities (#6) and divide by the number of intersections.
		High population densities can be a result of small area. For example, in one study alternative, the areas of CBG and 300-foot buffer intersections range from 0.000016 to 0.449941 sq. miles. When the estimated populations of intersections are divided by these small numbers, larger population densities can result. In addition, the Northern segment (the former RF&P line and S-line from Washington, DC to Centralia, VA) is common to all alternatives. When considered separately from other route segments, the population density of

Comr	nent Number	Comment	Response
	1,000,000		the Northern segment 300-ft buffer is 3,385 persons per sq. mile, 57-140% greater than the other segment buffers (when excluding the Northern segment).
201	Socio-	The extent of residential relocations defined in Table 4.38 is notable and needs explanation since the assumption is that the SEHSR would occupy existing ROW.	Residential relocations were estimated at a broad level based upon conceptual engineering results and assumptions. This information was used to provide input to the development of order of magnitude capital cost estimates for the alternatives. Section 4.3.1.5 of the DEIS provides a detailed description of how the residential relocations were determined. Right of way acquisitions could result from realigning curves to obtain/maintain the maximum operating speed of the proposed high speed passenger train set. In sections of the corridor where natural and man-made features pose constraints, preserving these features could require a new location for the proposed rail alignment as well as sufficient right-of-way to construct, maintain and improve this new proposed alignment. Curves that are to be realigned are proposed to be shifted "inside" the existing curve to "flatten" the curve for improved travel speed. Depending on the amount of shift for the curve realignment, the impacts on adjoining properties would vary from none where the realignment is contained within the existing right-of-way to residential and/or business relocations where development is "inside" the curve and close to the existing right-of-way. The exact number and types of businesses to be displaced would be researched during any Tier II documentation.
202	CAR-012	I would hope that the very long term	It is anticipated that the construction
	Topic:	possible positive impacts to some of	and operation associated with the
	Socio-	the more rural areas would weigh	proposed SEHSR program would
	economic	heavily in the final routing decision. I'm	
	333.737777	not sure how much congestion would	additional jobs; and income and
	·	be relieved on I-40 for example for	sales that generate additional tax
		DC to Charlette NC	3.81

Comr	nent Number	Comment	Response
		everyday commuters; whereas the rural areas would become more attractive to economic development. Alternative H will exacerbate the gulf between the "haves" and "have-nots". Thanks for listening.	revenues for both Virginia and North Carolina. The Southeastern Economic Alliance (SEA), a coalition of thirteen chambers of Cornmerce from across six Southeastern states, cite that the overall investments in capital and operation expenses in the proposed Southeast corridor improvements are estimated to return \$2.54 in benefits for every dollar invested creating a positive impact on the region. The rural communities are expected to share in this benefit. However the evaluation factors used to compare the alternatives were not weighted, but input from the DEIS public hearing and public input received throughout the project has been summarized and considered in the evaluation process.
203	CHA-010 Topic: Socio- economic	What will happen to our businesses. What about noise and vibration.	During the Tier II studies, the specific businesses that would be affected by the SEHSR would be identified and the types of impacts would be determined, including potential noise and vibration impacts and means to mitigate these impacts. If your business would be acquired and you would have to relocate, you would be ensured of fair, consistent and equitable treatment through the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Public law 91-646) and the Uniform Relocations Act Amendments of 1987 (Public law 100-17). The Uniform Act contains specific requirements that govern the manner in which a government entity acquires property for public use. The law is designed to ensure just compensation for all acquired properties and minimal impact on the current owners and lessees.
204	Topic: Socio-	Am I going to have to move? Will I be compensated for the price of my business? What about noise and vibration?	See Response to comment number 203 CHA-010 above.
205	DUR-002 Topic:	A high speed rail through downtown Durham raises concerns about	The potential impacts of a high speed rail through downtown

Comi	nent Numbei	Comment	Response 💉 👚
	Socio- economic	economic vitality. The high speed rail could divide downtown into two parts. What impact would the rail line have on future development of the American Tobacco property on Brightleaf Square and future development of the Liggett properties along West Main Street. These projects represent significant private and public sector investment, tax base growth and future employment opportunities.	Durham would depend greatly upon the specific alignment, which would be determined during any Tier II studies. We are aware of the concerns from Durham residents based upon their input through the public involvement process. Currently the railroad tracks are a dominant feature of downtown Durham and a detailed assessment of the potential impact of adding high speed rail service would be conducted if that is the alignment identified for the proposed high speed rail service. As a part of any Tier II analysis all proposed and planned developments along the alignment would have to be identified. We would coordinate with the developers and the municipal representatives to develop a design of the HSR service that would compliment and not disturb or damage the goals set forth for Durham. In many cities across the United States rail transit service is being successfully integrated into urban settings and in some cases is proving to be a catalyst for development and redevelopment.
206	DUR-017 Topic: Socio- economic	through downtown? At grade? Via a	See response to comment number 205 DUR-002. The method by which the HSR would serve downtown Durham would be identified during any Tier II studies.
207	HEN-005 Topic: Socio- economic	Please strongly consider routing the future HSR through Henderson. A stop in Henderson would serve many communities and be a great economic benefit. We are located close to Raleigh and have easy access from all directions. Henderson could also serve Southern Virginia, bringing retail sales and taxes to North Carolina.	developing ridership estimates. Exact station locations would be determined as a part of any Tier II

Comr	nent Number	Comment	Response
			access to the service and to make sure that we can maintain the projected speed of the service. If HSR stops too often it would not be able to reach and maintain the high speed for which it is designed.
			Due to the public input from the Henderson area we are aware of the potential positive benefits that are anticipated for your area. All of this information would be more carefully examined and supplemented during any Tier II studies.
208	HEN-016 Topic: Socio- economic	Would efforts to enhance commercial development around the local stations be part of this project?	Any enhancement effort would be developed cooperatively with the representatives of the local communities and businesses along the proposed. Any Tier II studies would examine potential opportunities for economic.
209	HEN-020 Topic: Socio- economic	Would this project bring any new jobs to Vance County?	See response to comment number 202 CAR-012 above.
210	PET-013 Topic: Socio- economic	Under your exhibit ES-6, under all the alternatives, there seem to be relocations for residential and business use. But if the railroad is going to be using existing rights-of-way, why do business and residents have to be relocated?	See response to comment number 201 AGE-011.
211	ROA-013 Topic: Socio- economic	this town (Roanoke Rapids) with high- speed rail, then how much is that traffic (is) the passengers and the people who now drive I-85 and spend the night in Roanoke Rapids? How	determine the potential impact of the proposed service on tourism in your county. In addition we do not currently have the data needed to determine the impacts if the HSR trains bypassed your city without a stop. We are aware of the concerns and expectations of the people in the Roanoke Rapids area based upon your input to the DEIS Public hearings and the SEHSR ongoing

Comr	nent Number	Comment	Response
	_		alternatives. The specific location of stations would be determined as part of any Tier II analysis.
212		Encourage a corridor route through Roanoke Rapids/Weldon and Eastern NC. As the most economically stressed area of the state, such a route would be very cost effective.	See response number 211 ROA-013
213		The railroad will bisect the Chesson property, which will limit access to the western portion of the tract. Cutting off this access will make the land virtually worthless by land locking the property – as there is no other access to it.	Roanoke Rapids area based upon your input to the DEIS Public
214	SOU-001 Topic: Socio- economic	What are the "buffer areas" associated with the residential and business relocations?	These relocations were based upon the 200' wide footprint of the conceptual design. Each of the nine Study Area Alternatives would require varying degrees of right of way acquisitions and varying numbers of relocations. The projected right of way impact and projected number of relocations were calculated based on conceptual engineering results and assumptions. Potential relocations were estimated using the USGS quarter quad sheets. Building outlines were used to calculate the square footage of potential business relocations. The exact number and types of businesses to be displaced would be researched during any Tier II analysis once the specific alignment is determined.
215	SPR-002 Topic: Socio- economic	(I am) Concerned vision is lacking regarding Richmond to DC. This has tremendous opportunity to become a commuter line if attractively priced. DC is incredibly expensive to live in, forcing people further out. VRE helps us commute to DC and so should SEHSR.	One of the goals of a program such as the SEHSR is to help create a more balanced transportation system with travel options for passengers. The better and more efficient the options the more likely people are to use the service. Thus making sure that SEHSR works well and in an integrated manner with other existing modes is a part of developing this integrated and balanced

Comn	nent Number	Comment	Response
216	SPR-010 Topic: Socio- economic	Low impact to public?	transportation system. The use of existing railroad rights-of-way that are established travel corridors is proposed for the SEHSR service as a means to reduce the potential impacts to adjacent communities.
217	SPR-013 Topic: Socio- economic	As a deaf consumer, I am concerned about the number of deaf home owners whose properties may be impacted.	Your concern is noted. If we move into any Tier II analysis and a specific alignment is identified, we would be able to determine the exact properties affected. As the project development moves forward from that point we would identify the affected property owners. During the right-of-way acquisition phase property owners would be contacted and those with special needs would be paired with staffers that can answer your questions and concerns.
218	STA-003 Topic: Socio- economic	I believe the value of my property will decrease.	Studies conducted on various other rail projects in North America are inconclusive about the impact of transit on adjacent properties. This is due primarily to the fact that there are so many elements that affect property values and it is difficult, at best, to isolate any one factor to attribute any changes in property value. In some situations the presence of a rail line and the significant infrastructure investment it represents has a positive impact on surrounding property values.
219	WIL-008 Topic: Socio- economic	I'm curious to see how this particular effort may help the textile industry in terms of getting products to market or somehow serves a relationship to that industry relative to this public investment.	What this particular impact may be cannot be determined at this point in the study process. However, any
220	WIN-001 Topic: Socio- economic	Convenient and rapid rail service will help local business.	Positive benefits to local businesses are possible based upon the proposed investment in the SEHSR.
221	WIN-008 Topic: Socio- economic	Much of the area that will likely cause business relocations if the SEHSR comes through Winston-Salem are already undergoing conversion and	See response to comment number 214 SOU-001. Also this kind of information would be taken into consideration when the exact

Comr	nent Number	Comment	Response
		relocation. Winston-Salem State University, R.J. Reynolds, and other area businesses are converting their property, and the business relocations for the SEHSR should be less than might otherwise be expected.	
222	economic	Winston-Salem business development, Wake Forest University expansion into the high tech industry, and just plain needs of transportation. People demand that Winston-Salem be given a high priority into the overall game plan.	Winston-Salem area based upon
223	Topic: Socio- economic	surrounding areas – if left out of the	colleges and universities are traditionally a good source of activity and therefore have great potential for ridership.
224	Topic: Socio- economic	In favor of high speed rail coming through Winston-Salem, NC to facilitate growth in the biotech field. This would be a stimulus to growth particularly because of our transfer of business between Winston-Salem and Raleigh.	See response to comment number 222 WIN-020.
225	WIN-237 Topic: Socio- economic	Recently this area has suffered a great deal with loss of employment in the textile and other industries. Inclusion of Forsyth County in the plan is vital to the economic viability and development of this area.	from across six Southeastern states, cite that the overall, investments in capital and operation expenses in the proposed Southeast corridor improvements are estimated to return \$2.54 in benefits for every dollar invested creating a positive impact on the southeast region.
238		railroads.	It is anticipated that the construction and operation associated with the proposed SEHSR program would spur economic activity creating additional jobs; and income and sales that generate additional tax

Comr	nent Number	Comment	Response
	2003/403-302 CLUDH RH20-2003RR REVYEN YHTE		revenues for both Virginia and North Carolina. Construction of the proposed SEHSR could potentially create new jobs for individuals to upgrade the roadbed, install signal and safety devices, build frontage/service roads, improve grade crossings, and build bridges to replace grade crossings. Additional jobs, potentially within the Study Area Alternatives, could be created within the manufacturing sector to produce the equipment and devices needed to make these improvements. The extent to which these jobs can and would be filled from the ranks of the unemployed is not known.
226	WIN-343 <i>Topic:</i>	A must for Winston-Salem to regain its top position in industrial leadership	See comment number 222 WIN-020.
	Socio-	that was once noted nationwide. A	
	economic	must to meet the environmental air control state and federal requirements.	
		A must to attract new business,	
		enlarge present business and utilize	
		the vast job market with Forsyth	
		County. To keep and attract the age group 21-38 yrs of age, which is the	
		main request of the most prosperous	`
		and successful metropolitan areas.	
(222)	ASSESSES SERVICE (SERVICE)	Topic: Summary	The state of the s
227	AGE-011	Notwithstanding the fact that this is a Tier I document, EPA believes that the	At the end of each impact
	Topic: Summary		Chapter 4 (Environmental
	<i>-</i>		Consequences) there is either a
		alternative relative to key	conclusions section which identifies
			which alternative was the best for
`			this particular area, or there is a summary table that presents the
			results of the analysis of the
	Topic:		particular. In some cases this
	Summary		information is specifically called out
			in a section labeled conclusions
			/impacts by alternative/comparison of alternatives; in others it is a part of a
			summary table and still in others it is
			a part of the closing paragraph in that
			section. This is the case for the
			following impact areas: section 4.1.1-
			water resources, section 4.1.6- mineral resources, section 4.1.7-
			hazardous materials sites, section
	D.144 11 4	DC to Charlotte, NC	3.88

Comment	Number	Comment	Response
		·	4.1.8-air quality, section 4.1.9 noise and vibration, section 4.1.10 energy, section 4.1.11 prime farmland, section 4.2.1 protected species, section 4.2.2 wild and scenic rivers, section 4.3.1.1 community impacts section 4.3.1.2 environmental justice, section 4.3.1.4 land use, section 4.3.1.6 transportation impacts, section 4.3.1.7 utility impacts, section 4.3.1.8 historic and architectural resources, and section 4.6 Section 4(f) and 6 (f) properties. These comprise the majority of the impact areas examined in the document. Some impacts areas such as visual there were virtually no difference between the 9 alternatives. Table 4-38 was included at the end of Chapter 4 to allow a comparative summary of impacts and benefits by alternative.
		·	Our approach was to provide general information to facilitate an assessment of impacts that would allow a comparative assessment of the alternatives. We did not want to try and draw conclusions that might not be warranted by the level of information we had available to complete our analysis.
T	-		See response to comment number 227 above. Table ES-2 of the Executive Summary of the Tier I DEIS provides a summary of the operational characteristics of the alternatives. A companion report to the Tier I DEIS and the decision document that identifies the recommended alternative and includes this sort of analysis you

Comr	nent Number	Comment	Response
		Alternative A were chosen the following issues would need to be addressed "	
229	PET-006 Topic: Summary	Page 1 through 35? (Matrices)	Pages 1-35 of the document do contain a number of matrices, which are designed to provide the reader with a tabular summary of the vast material that is presented in the document. The details by which these matrices were developed are included in the chapters of the document.
000		Topic: Technology	
230	Technology	You mentioned the magnetic levitation technology wasn't quite feasible at this point. What is that going to mean for this corridor when that technology does come to be in the next 10 years? Would we be starting over? Is it going to be a higher upgrade?	(Maglev) feasibility is a combination of cost, system reliability, and integration with existing modes of transportation. The high cost
231	SPR-021 Topic: Technology	Use existing steel rail technology. The cost for securing ROW for "maglev" is cost prohibitive. Existing "Talgo" technology is excellent. Don't try to reinvent the wheel since the Europeans already have excellent train systems.	Thank you for your comment.
		Topic: Tier II	
232	RIC-002 Topic: Tier II Topic: Tier II	You are in the Tier I study now, the higher review. You are moving to the Tier II study beginning next year (2002). Tier II is also environmental?	Yes. Following this Tier I FEIS, a determination will be made by the transportation departments of Virginia and North Carolina whether to move forward to implement a high speed rail program through both states. If the decision is made to move forward with a build alternative, the states will work together to develop a final rail plan that is consistent with the Tier I FEIS Record of Decision. This final plan would identify the specific actions needed to fully implement high speed rail in North Carolina and Virginia.

Comment Number	Comment Response	
	Following development of the final rail plan, the appropriate Tier II environmental studies (project level would be performed for those specific actions. A decision on the type of Tier II environmental documentation to be prepared would also be made at that time. The Tier studies could include any of the following of three types of environmental documents based upon the proposed action:	ld
	 Categorical Exclusions (CEs for actions that do not individually or cumulatively have a significant environmental effect. Environmental Assessments (EAs) for actions in which the significance of the environmental impact is not clearly established. EAs car lead to the development of EIS documents or a Finding of No Significant Impact (FONSI) Environmental Impact Statements (EISs) for project where it is known that the action could have significant environmental effect. 	s ne cts
Topic: Tier II	USDOT (FHWA and FRA) environmental regulations and procedures [23CFR 771.117 (c and d) and 64 FR 28545] list potential actions that meet the criteria for CE documentation. The Tier II studies would be detaile in nature, as appropriate to the	<u>:</u> d
	action, and would continue the publinvolvement effort already begun in this first Tier. These detailed environmental analyses will assess the environmental impacts of each action and identify ways to avoid, minimize and mitigate impacts. The state transportation departments ar Federal Agencies would use the Tiell studies to determine the exact	e nd

Comr	nent Number	Comment	Response
			location and magnitude of each action, such as number of tracks, types of structures, station location and configuration, routing within existing right of way, bypasses, etc. As Tier II documents are completed, the permitting process (as appropriate) would be initiated and completed, and the construction process could proceed.
		Topic: Water Resource	CeS control large and larg
233	DUR-003 Topic: Water Resources	For water supply occurrences, have you factored in the total populations/projected populations served by the watersheds?	All water-supply watersheds received equal consideration when potential impacts to them were analyzed for this Tier I document. The concern for all water- supply watersheds is to protect their water quality. Impacts to communities and projected community growth are addressed in other sections of the document.
234	GRE-001 Topic: Water Resources	Water quality with regard to the new Randleman Reservoir is a concern that needs to be noted.	The proposed 3000-acre Randleman Reservoir is an on-going project that is planned to serve as a water supply for the City of Greensboro, NC and surrounding communities. The GIS data set used for analysis in this document did not include the watershed area for the Randleman Reservoir. This water-supply watershed was designated in late 1998. During any Tier II evaluation, information regarding this new reservoir would be incorporated into the report. Investigations of the water quality impacts of the SEHSR corridor for the Randleman Reservoir would be included in the subsequent Tier II evaluation. Also, any applicable requirements in the Nutrient Management Strategy for the Randleman Reservoir (15A NCAC 02B .0248 though .0251) would be included.
235	WIN-006 Topic: Water Resources	Winston-Salem draws only a small percentage of its drinking water from Salem Lake and as a policy does not draw any drinking water from the lake when the lake's water level has dropped by 12 inches. Therefore, the City's sensitivity to water consumption from this watershed is very low.	All water-supply watersheds received equal consideration when analyzing for potential water quality impacts for this Tier I document.