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Appendix H: RSIP Analysis – Freight Short-Range and Long- Range Projects

Freight Rail Capital Program Needs by Category (Short-Range)

Short-Range Freight Rail Capital Program Needs by Category (2021-2024) in Millions of Year of Expenditure (YOE) Dollars

Table H-1: Short-Range Freight Rail Capital Needs (2021-2024) in Millions of YOE Dollars-Accelerated Maintenance

Project	Railroad/ Corridor	County	Region	2021	2022	2023	2024	Total Cost (YOE)
Repairs to Allegheny River Bridge	AVR	Allegheny	Southwest	\$1.2	\$1.2	\$1.3	\$0.0	\$3.7
Rail replacement, ties, and surfacing	ESPN	Chester	Southeast	\$0.0	\$9.5	\$0.0	\$0.0	\$9.5
Rail replacement, ties, and surfacing	ESPN	Chester	Southeast	\$0.0	\$9.5	\$0.0	\$0.0	\$9.5
Repairs to Maitland Branch Bridge No. 4.53 over Jacks Creek	JVRR	Mifflin	Central	\$0.0	\$0.0	\$0.0	\$0.1	\$0.1
Repairs to Burnham Branch Bridge No. 3.25 over Kishacoquillas	JVRR	Mifflin	Central	\$0.0	\$0.2	\$0.0	\$0.0	\$0.2
West Park Track Reconstruction	JVRR	Mifflin	Central	\$0.8	\$0.0	\$0.0	\$0.0	\$0.8
Ties & Surfacing	LRWY	Bradford	Northern Tier	\$0.0	\$0.6	\$0.6	\$0.7	\$1.9
Tie & Rail Upgrade	LS	Luzerne	Northeast	\$1.6	\$1.7	\$1.7	\$0.0	\$5.0
Repairs to Avis I.T. Bridge No. 168.67 over Lawshe Run	LVRR	Lycoming	Central	\$0.0	\$0.1	\$0.0	\$0.0	\$0.1
Repairs to Avis I.T. Bridge No. 1.98 over HWY #2	LVRR	Lycoming	Central	\$0.0	\$0.3	\$0.0	\$0.0	\$0.3
Repairs to Avis I.T. Bridge No. 177.20	LVRR	Lycoming	Central	\$0.0	\$0.0	\$0.2	\$0.0	\$0.2
Repairs to Avis I.T. Bridge No. 171.30 over S.R. 220	LVRR	Lycoming	Central	\$0.0	\$0.6	\$0.0	\$0.0	\$0.6
Rail Replacement on Avis Branch	LVRR	Lycoming	Central	\$0.9	\$1.0	\$1.0	\$1.0	\$3.9
Bridge materials	MSUB	Chester	Southeast	\$0.5	\$0.0	\$0.0	\$0.0	\$0.5
Track Materials Rebuild	MSUB	Chester	Southeast	\$0.8	\$0.0	\$0.0	\$0.0	\$0.8
Repairs to Bridge No. 6.17	NBER	Blair	Central	\$0.0	\$0.2	\$0.0	\$0.0	\$0.2
Repairs to Bridge No. 6.79	NBER	Centre	Central	\$0.0	\$0.2	\$0.0	\$0.0	\$0.2
Repairs to Bridge No. 51.21	NBER	Clinton	Central	\$0.0	\$0.0	\$0.0	\$0.3	\$0.3
Repairs to Bridge No. 21.46 over Adams Creek	NBER	Centre	Central	\$0.0	\$0.0	\$0.0	\$0.3	\$0.3
Hilex and 84 Lumber Turnout Replacements	NBER	Centre	Central	\$0.0	\$0.5	\$0.0	\$0.0	\$0.5

Project	Railroad/ Corridor	County	Region	2021	2022	2023	2024	Total Cost (YOE)
Repairs to Bellefonte Branch Bridge 31.08	NBER	Centre	Central	\$0.0	\$0.0	\$0.1	\$0.0	\$0.1
Repairs to Bellefonte Branch Bridge 31.10	NBER	Centre	Central	\$0.0	\$0.0	\$0.3	\$0.0	\$0.3
Repairs to Bellefonte Branch Bridge 36.90	NBER	Centre	Central	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Port Matilda stormwater management	NBER	Centre	Central	\$0.4	\$0.0	\$0.0	\$0.0	\$0.4
Moose Run stream stabilization and culvert replacements	NBER	Centre	Central	\$0.0	\$2.1	\$0.0	\$0.0	\$2.1
Ivyland track improvements	NHRR	Bucks	Southeast	\$0.0	\$0.0	\$0.0	\$0.7	\$0.7
Repairs to Bridge No. 191.52	NSHR	Columbia	Central	\$0.0	\$0.4	\$0.0	\$0.0	\$0.4
Repairs to Bridge No. 180.55	NSHR	Columbia	Central	\$0.0	\$0.0	\$0.0	\$0.1	\$0.1
Repairs to Bridge No. 192.01	NSHR	Columbia	Central	\$0.0	\$0.0	\$0.0	\$0.1	\$0.1
Repairs to Bridge 207.66	NSHR	Columbia	Central	\$0.0	\$0.0	\$0.0	\$0.6	\$0.6
Bloomsburg to Lime Ridge Drainage Improvements	NSHR	Columbia	Central	\$0.8	\$0.0	\$0.0	\$0.0	\$0.8
Masonite Track Upgrade	NSHR	Northumberland	Central	\$0.0	\$0.0	\$0.0	\$0.0	\$0.1
Improvements to the Bethlehem and Stoney Creek Branches	PN	Montgomery	Southeast	\$0.0	\$0.0	\$0.0	\$138.4	\$138.4
Rail & Tie Upgrade	RJCP	Indiana	Southwest	\$1.3	\$1.3	\$1.4	\$1.4	\$5.4
Ties & Surfacing I	RJCP	Indiana	Southwest	\$0.7	\$0.7	\$0.7	\$0.0	\$2.1
Cresson Interchange Track Rehabilitation	RJCP	Cambria	Southern Alleghenies	\$0.4	\$0.4	\$0.4	\$0.4	\$1.7
Tie & Rail Upgrade	RJCP	Clearfield	North Central	\$0.0	\$2.2	\$2.3	\$2.3	\$6.8
Track and Structure Improvements near Arcelor Mittal Steel Mill Property (3/4)	SHRR	Dauphin	Central	\$1.5	\$0.0	\$0.0	\$0.0	\$1.5
Repairs to Bridge No. 17.39	SVRR	Northumberland	Central	\$0.0	\$0.0	\$0.2	\$0.0	\$0.2
Repairs to Bridge No. 152.95	SVRR	Northumberland	Central	\$0.0	\$0.1	\$0.0	\$0.0	\$0.1
Repairs to Bridge No. 154.84	SVRR	Northumberland	Central	\$0.0	\$0.0	\$0.0	\$0.8	\$0.8

Project	Railroad/ Corridor	County	Region	2021	2022	2023	2024	Total Cost (YOE)
Repairs to Bridge No. 155.22	SVRR	Northumberland	Central	\$0.0	\$0.0	\$0.4	\$0.0	\$0.4
Youghiogheny Bridge Deck Upgrade	SWP	Fayette	Southwest	\$0.4	\$0.4	\$0.0	\$0.0	\$0.8
Yard Tie Replacement	URR	Allegheny	Southwest	\$0.5	\$0.5	\$0.0	\$0.0	\$0.9
Port Perry Bridge Repairs	URR	Allegheny	Southwest	\$1.2	\$1.2	\$0.0	\$0.0	\$2.4
Total				\$13.0	\$35.1	\$10.7	\$147.3	\$206.1

**Table H-2: Short-Range Freight Rail Capital Needs (2021-2024)
in Millions of YOE Dollars-Access Existing or New Customers**

Project	Railroad/ Corridor	County	Region	2021	2022	2023	2024	Total Cost (YOE)
Glenwood Yard Gantry Crane/track restoration	AVR	Allegheny	Southwest	\$1.1	\$1.1	\$0.0	\$0.0	\$2.2
Bridge, Track, and Transload Capacity Issues	EBG	Berks Montgomery	Southeast	\$8.3	\$8.5	\$8.8	\$9.0	\$34.6
Acquisition of EBT Track	EBTC	Huntingdon	Southern Alleghenies	\$0.3	\$0.3	\$0.3	\$0.3	\$1.1
Mainline Track Upgrade and New Transload Terminal	EBTC	Huntingdon	Southern Alleghenies	\$0.0	\$1.1	\$1.1	\$0.0	\$2.2
Increased rail capacity at World Kitchens plant	NS	Washington	Southwest	\$0.3	\$0.3	\$0.3	\$0.0	\$0.8
New Track-Proposed New Milford Shale Rail Transload Site	NS	Susquehanna	Northern Tier	\$3.2	\$3.3	\$3.4	\$0.0	\$10.0
Proposed AdvanSix Rail Service Redesign	PBL/CSAO	Philadelphia	Southeast	\$4.0	\$4.1	\$4.2	\$4.4	\$16.7
Extend rail service into Great Stream Commons Industrial Park	UCIR	Union	Central	\$3.6	\$0.0	\$0.0	\$0.0	\$3.6
Total				\$20.7	\$18.7	\$18.1	\$13.7	\$71.2

Table H-3: Short-Range Freight Rail Capital Needs (2021-2024) in Millions of YOE Dollars-Improve Civil Works

Project	Railroad/ Corridor	County	Region	2021	2022	2023	2024	Total Cost (YOE)
Repairs to Antlers I.T. Bridge No. 179.44	LVRR	Lycoming	Central	\$1.2	\$0.0	\$0.0	\$0.0	\$1.2
Creation of High-Speed Intermodal Route for Double stack Trains	NS	Allegheny	Southwest	\$0.0	\$0.0	\$32.8	\$0.0	\$32.8
Repairs to Bridge No. 186.18	NSHR	Columbia	Central	\$0.0	\$0.0	\$0.7	\$0.0	\$0.7
Repairs to Bridge No. 195.88 (Bear Camp)	NSHR	Columbia	Central	\$0.4	\$0.0	\$0.0	\$0.0	\$0.4
Total				\$1.6	\$0.0	\$33.4	\$0.0	\$35.1

Table H-4: Short-Range Freight Rail Capital Needs (2021-2024) in Millions of YOE Dollars-Improve Terminal

Project	Railroad/ Corridor	County	Region	2021	2022	2023	2024	Total Cost (YOE)
New Storage Track- Linde Carbondale Transload Facility	DL	Lackawanna	Northeast	\$0.4	\$0.5	\$0.5	\$0.0	\$1.4
Burnham Yard Additional Tracks (North Yards development)	JVRR	Mifflin	Central	\$0.8	\$0.8	\$0.9	\$0.0	\$2.5
Wilson Yard - Track and Turnout Improvements	NBER	Centre	Central	\$0.0	\$0.5	\$0.0	\$0.0	\$0.5
Rail Yard Improvements including Turnout Replacement and Crossing Upgrade	RBMN	Wyoming	Northeast	\$0.3	\$0.0	\$0.0	\$0.0	\$0.3
Leaman Yard Improvements Phase 2	SRC	Lancaster	South Central	\$0.0	\$0.0	\$1.4	\$1.4	\$2.8
Duquesne Wharf Reconfiguration	URR	Allegheny	Southwest	\$0.0	\$0.0	\$2.6	\$2.7	\$5.3
Port Perry Yard Extension	URR	Allegheny	Southwest	\$0.7	\$0.7	\$0.0	\$0.0	\$1.4
Total				\$2.3	\$2.5	\$5.3	\$4.1	\$14.1

Table H-5: Short-Range Freight Rail Capital Needs (2021-2024) in Millions of YOE Dollars-Improve Track

Project	Railroad/ Corridor	County	Region	2021	2022	2023	2024	Total Cost (YOE)
Rebuild Allegheny River Sub 48th Street to 62nd Street	AVR	Allegheny	Southwest	\$0.0	\$0.0	\$0.0	\$8.7	\$8.7
Crossover at Bridge 60	DL	-	Northeast	\$0.1	\$0.1	\$0.1	\$0.0	\$0.3
Castanea Runaround on Mill Hall Industrial Track	NBER	Clinton	Central	\$0.3	\$0.3	\$0.4	\$0.0	\$1.0
Construction of Parallel NS Line and Switches	NS	Lancaster	South Central	\$0.6	\$0.6	\$0.6	\$0.6	\$2.4
Increased track capacity at J.M. Smucker's plant	NSHR	Columbia	Central	\$0.1	\$0.1	\$0.1	\$0.0	\$0.4
Explore new interchange points with CSXT/SEPTA and expand PN trackage rights	PN	Montgomery	Southeast	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Arcelor Mittal Steel Mill Track Improvements Phase 4	SHRR	Dauphin	Central	\$0.0	\$1.5	\$1.5	\$0.0	\$3.0
Total				\$1.1	\$2.6	\$2.7	\$9.3	\$15.8

Freight Rail Capital Program Needs by Category (Long-Range)

Long-Range Freight Rail Capital Program Needs by Category (2025-2045) in Millions of 2020 Dollars

Table H-6: Long-Range Freight Rail Capital Needs (2025-2045) in Millions of 2020 Dollars-Accelerated Maintenance

Project	Planned Implementation	Railroad/ Corridor	County	Region	Estimated Cost (\$2020)
Change out worn rail on Pocono and Carbondale Mains	2020-2025	DL		Northeast	\$0.4
Highway Crossing Surface Replacement	2020-2025	DL		Northeast	\$0.4
New Ties on Pocono and Carbondale Mains	2020-2025	DL		Northeast	\$0.9
Rail Change out	2020-2025	DL		Northeast	\$0.6
Rail Change Outs on Pocono and Carbondale Mains	2020-2025	DL		Northeast	\$0.4
NBER Main Flood Resiliency	2022-2025	NBER	Clinton, Centre, Blair	Central	\$3.0

Appendix H: RSIP Analysis – Freight Short- and Long-Range Projects

Project	Planned Implementation	Railroad/ Corridor	County	Region	Estimated Cost (\$2020)
NBER Main shoulder cutting	2022-2025	NBER	Clinton, Centre, Blair	Central	\$1.9
Hunker to Youngwood Rail Replacement	2022-2026	SWP	Westmoreland	Southwest	\$4.5
Oliver Siding Upgrades	2022-2026	SWP	Fayette	Southwest	\$3.9
Yukon Branch Track & Bridge Upgrades	2022-2026	SWP	Westmoreland	Southwest	\$5.5
Rail & Tie Upgrade	2023-2025	RJCP	Cambria	Southern Alleghenies	\$5.9
Bridge Maintenance and Repair	2023-2025	MSUU	Montgomery	Southeast	\$1.2
Rail Rehabilitation around Arcelor Mittal steel plant	2023-2026	SHRR	Dauphin	Central	\$10.0
Ties & Surfacing II	2023-2026	RJCP	Indiana	Southwest	\$1.4
Ties & Surfacing	2024-2027	RJCP	Cambria	Southern Alleghenies	\$1.4
Improvements on the Stoney Creek between Lansdale and Norristown	2025+	PN	Montgomery	Southeast	TBD
Improvements to the Bethlehem Branch MP 24.20 – MP 30.50 (Lansdale to Souderton) and Stoney Creek Branch MP 0.0 – MP 3.0.	2025+	PN	Montgomery	Southeast	TBD
Improvements to the New Hope Branch, Lansdale to Souderton	2025+	NHRR	Bucks	Southeast	TBD
Repairs on Maitland Branch Bridge No. 0.46	2025+	JVRR	Mifflin	Central	\$0.1
Repairs to Antlers I.T. Bridge No. 242.86	2025+	LVRR	Lycoming	Central	\$0.3
Repairs to Avis I.T. Bridge No. 1.78 over Pine Creek	2025+	LVRR	Lycoming	Central	\$0.2
Repairs to Avis I.T. Bridge No. 170.65 Avis I.T> Bridge No. 168.67 over Lawshe Run	2025+	LVRR	Lycoming	Central	\$0.1
Repairs to Bridge No. 26.01	2025+	NBER	Centre	Central	\$0.1
Repairs to Bridge No. 33.65	2025+	NBER	Centre	Central	\$0.2
Repairs to Bridge No. 9.76	2025+	NBER	Centre	Central	\$0.1
Repairs to LVRR I.T. Bridge No. 189.66 over Carpenters Run	2025+	LVRR	Lycoming	Central	\$0.0
Repairs to LVRR I.T. Bridge No. 193.42	2025+	LVRR	Lycoming	Central	\$0.1

Project	Planned Implementation	Railroad/ Corridor	County	Region	Estimated Cost (\$2020)
Repairs to LVRR I.T. Bridge No. 198.15 over McClures Run	2025+	LVRR	Lycoming	Central	\$0.2
1,500 Feet of Rail Relay - TAVO Lead	2025-2030	SLRS	Bucks	Southeast	\$0.2
1,500 New Crossties	2025-2030	SLRS	Bucks	Southeast	\$0.1
2,200 Feet of Rail Relay - Wonder Lead	2025-2030	SLRS	Bucks	Southeast	\$0.3
700 Feet of Rail Relay - on the Main at KTC Curve	2025-2030	SLRS	Bucks	Southeast	\$0.1
750 Feet of Rail Relay - on the Main at Shea Lumber Curve	2025-2030	SLRS	Bucks	Southeast	\$0.1
800 Feet of Rail Relay - Geoffrey Rd. to Newbold Rd.	2025-2030	SLRS	Bucks	Southeast	\$0.1
850 Feet of Rail Relay - Blue Ridge Lead	2025-2030	SLRS	Bucks	Southeast	\$0.1
Main Line Tie Replacement and surfacing	2025-2030	MSUU	Montgomery	Southeast	\$0.4
Main Line tie replacement and surfacing	2026-2028	MSUB	Chester	Southeast	\$0.8
Bridge Maintenance and Repair	2027-2030	MSU	Chester	Southeast	\$0.5
Maitland Industrial Track Rail Replacement	2030+	JVRR	Mifflin	Central	\$3.0
Rail Replacement - 101# & 105# to Heavier Rail Section (25 track miles)	2030+	NSHR	Northumberland	Central	TBD
Reconstruct Curves on SVRR Main (up to 8 miles)	2030+	SVRR	Northumberland	Central	\$3.5
Main Running Tracks Tie Replacement and surfacing	2031-2035	MSU	Chester	Southeast	\$1.0
Mold Prep Turnout Replacement (7)	2036-2038	MSU	Chester	Southeast	\$0.6
Back Tracks Rehabilitation and Turnouts	2038-2040	MSUB	Chester	Southeast	\$0.6
Bridge Maintenance and Repair1	2041-2042	MSUB	Chester	Southeast	\$0.5
Improvements to the New Hope Branch, Johnsonville to New Hope	TBD	NHRR	Bucks	Southeast	\$6.8
Track improvements to Class 3	TBD	CNYK	Pike, Susquehanna	Northern Tier	\$23.0
Total					\$83.9

Table H-7: Long-Range Freight Rail Capital Needs (2025-2045) in Millions of 2020 Dollars-Access Existing or New Customers

Project	Planned Implementation	Railroad/ Corridor	County	Region	Estimated Cost (\$2020)
New Capacity at DeGol Industrial Park	2022-2030	NS	Blair	Central	\$10.0
Siding Installation (450 Feet)	2025-2030	SLRS	Bucks	Southeast	\$0.1
Siding Installation (545 Feet)	2025-2030	SLRS	Bucks	Southeast	\$0.2
Siding Installation (750 Feet)	2025-2030	SLRS	Bucks	Southeast	\$0.2
Track and Roadbed Rehabilitation on Keystone Corridor	2024-2045	SRC	Lancaster	South Central	\$20.0
Total					\$30.5

Table H-8: Long-Range Freight Rail Capital Needs (2025-2045) in Millions of 2020 Dollars-Grade Crossing

Project	Planned Implementation	Railroad/ Corridor	County	Region	Estimated Cost (\$2020)
Grade Crossing Improvements	2034-2037	MSUB	Chester	Southeast	\$0.5
Grade Crossing Improvement	2034-2035	MSUU	Montgomery	Southeast	\$0.2
Total					\$0.7

Table H-9: Long-Range Freight Rail Capital Needs (2025-2045) in Millions of 2020 Dollars-Improve Civil Works and Improve Terminal

Project	Planned Implementation	Railroad/ Corridor	County	Region	Estimated Cost (\$2020)
Glenwood Yard Engine House & Improvements	2021-2025	AVR	Allegheny	Southwest	\$9.5
Glenwood Yard track & capacity improvements	2021-2025	AVR	Allegheny	Southwest	\$3.0
Construction of 2 Yard Tracks at Green Ridge	2020-2025	DL	0	Northeast	\$0.5
Lengthen yard tracks at Green Ridge Yard	2020-2025	DL	Lackawanna	Northeast	\$0.8
New Lighting at Green Ridge Yard	2020-2025	DL	0	Northeast	\$0.1
Power Switch Installation at Scranton Yard	2020-2025	DL	0	Northeast	\$0.4

Project	Planned Implementation	Railroad/ Corridor	County	Region	Estimated Cost (\$2020)
Upgrade Turnouts at Newberry Yard	2023-2028	LVRN	Lycoming	Central	\$3.8
West Yard Rehabilitation	2024-2026	MSU	Chester	Southeast	\$0.7
Rail Scale Replacement	2023-2025	MSUB	Chester	Southeast	\$0.4
Ritchey Yard Rehabilitation and Turnouts	2030-2033	MSUB	Chester	Southeast	\$2.0
Build Track Scale in Bellefonte	2030+	NBER	Centre	Central	\$0.3
Construction and improvements for river docks	2022-2032	NS	Armstrong	Southwest	\$7.0
Feasibility of current Lansdale freight yard arrangement	2025+	PN	Montgomery	Southeast	TBD
Duke Oil Runaround Completion	2030+	SVRR	Northumberland	Central	\$0.3
Restoration of Shamokin Yard Tracks	2030+	SVRR	Northumberland	Central	\$1.5
Expand Yard Capacity	2022-2025	SWP	Fayette, Westmoreland	Southwest	TBD
Total					\$30.1

Table H-10: Long-Range Freight Rail Capital Needs (2025-2045) in Millions of 2020 Dollars-Improve Track and Rolling Stock

Project	Planned Implementation	Railroad/ Corridor	County	Region	Estimated Cost (\$2020)
500 Foot Extension to Rite Aid Lead	2025-2030	SLRS	Bucks	Southeast	\$0.1
BAE Systems Siding Reconfiguration-new spur track	TBD	YRC	York	South Central	TBD
Dedicated Freight and Passenger track on the Bethlehem Branch	2025+	PN	Montgomery	Southeast	TBD
Double Track on Cedar Street Bridge	2020-2025	DL		Northeast	\$0.3
Feasibility of two short line railroads (ESPN/PN) operating on the Lansdale to Quakertown portion of the Branch	2025+	PN	Montgomery, Bucks	Southeast	TBD
Installation of 1,400 Ft Run-Around	2025-2030	SLRS	Bucks	Southeast	\$0.4
Mt. Pleasant Siding	2022-2026	SWP	Westmoreland	Southwest	\$3.5
New Track Construction	2030-2033	MSUU	Montgomery	Southeast	\$0.5
Purchase and Installation of Auxiliary Power Units on locomotives	2020-2025	DL		Northeast	\$0.2
Reactivate the SEPTA Jenkintown wye	2025+	PN	Montgomery	Southeast	TBD

Appendix H: RSIP Analysis – Freight Short- and Long-Range Projects

Project	Planned Implementation	Railroad/ Corridor	County	Region	Estimated Cost (\$2020)
Rebuild Allegheny River Sub 62nd Street to Arnold	2022-2028	AVR	Allegheny	Southwest	\$10.0
Rehabilitation of WE line	2030	WE	Allegheny Fayette Washington Westmoreland	Southwest	\$20.0
Relocation of CSXT/PN freight interchange	2025+	PN	Bucks	Southeast	TBD
Siding Construction at Pocono Summit	2020-2025	DL	Monroe	Northeast	\$1.0
Track Capacity Upgrade on SRC Main Line	2024-2030	SRC	Lancaster	South Central	\$5.0
Total					\$41.0