

APPENDIX A.1

Acronyms and Abbreviations

A.1 ACRONYMS AND ABBREVIATIONS

$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
AC	alternating current
ADA	Americans with Disabilities Act
APE	Area of Potential Effects
BME	beyond mapped extent
BMP	best management practices
BRT	bus rapid transit
BTU	British thermal unit
CAA	Clean Air Act
CCC Transit Study	<i>Center City Connector Transit Study Volume I: LPA Report and Center City Connector Transit Study Detailed Evaluation Report (Volume II)</i>
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CIDBIA	Chinatown-International District Business Improvement Area
CO	carbon monoxide
CSO	Combined Sewer Overflow
DAHP	Washington Department of Historic and Archaeological Preservation
dB	decibels
dBA	A-weighted decibels
DC	direct current
DSTT	Downtown Seattle Transit Tunnel
EB	eastbound
Ecology	Washington Department of Ecology
EDR	Environmental Data Resources, Inc.
EMF	electromagnetic field
EMI	electromagnetic interference
EO	Executive Order
EPA	U.S. Environmental Protection Agency
ETB	electric trolley bus
FAZ	Forecast Analysis Zones

FHWA	Federal Highway Administration
FIRES	financial, insurance, and real estate/services
FTA	Federal Transit Administration
FTE	full-time equivalent
GHG	greenhouse gas
GP	general purpose
HAL	high accident location
HSS	Highway of Statewide Significance
ICR	Information Collection Request
in/sec	inch per second
IOPE	inclusive outreach and public engagement
KOP	key observation point
L _{dn}	day-night average sound level
LEP	Limited-English proficient
L _{eq}	equivalent sound level
L _{max}	maximum sound level
LOS	Level of Service
LPA	Locally Preferred Alternative
LWCF	Land and Water Conservation Fund
MMBtu	million British thermal units
mph	miles per hour
MSAT	mobile source air toxic
Mt/yr	megatons per year
NA	not applicable
NB	northbound
NFA	no-further action
NO _x	oxides of nitrogen
NRHP	National Register of Historic Places
OCS	overhead contact system
OESS	on-board energy storage systems
OMF	operation and maintenance facility
PAH	polycyclic aromatic hydrocarbon

Parks	Seattle Parks and Recreation
PCB	polychlorinated biphenyl
PDA	Pike Place Market Preservation and Development Authority
PGIS	pollutant-generating impervious surface
PM	particulate matter
PM ₁₀	particulate matter 10 microns in diameter or less
PM _{2.5}	particulate matter 2.5 microns in diameter or less
ppm	parts per million
PPV	peak particle value
PSCAA	Puget Sound Clean Air Agency
PSRC	Puget Sound Regional Council
RFFA	Reasonably foreseeable future actions
SB	southbound
SCIDpda	Seattle Chinatown International District Preservation and Development Authority
SDOT	Seattle Department of Transportation
SEL	sound exposure level
SFD	Seattle Fire Department
SIP	State Implementation Plan
SMC	Seattle Municipal Code
SO ₂	sulfur dioxide
SoDo	South of Downtown
SPD	Seattle Police Department
STC	streetcar
STOPS	Simplified Trips-on-Project Software
TMP	Transit Master Plan
TPSS	traction power substations
TSP	transit signal priority
UG	undefined geographically
U.S.C.	United States Code
USDOT	U.S. Department of Transportation
UST	underground storage tank
V/C	volume-to-capacity
VdB	vibration velocity level

VHT	vehicle hours traveled
VMT	vehicle miles traveled
VOC	volatile organic compounds
WAC	Washington Administrative Code
WB	westbound
WSDOT	Washington State Department of Transportation
WTU	warehousing, transportation, and utilities

APPENDIX A.2

References

A.2 REFERENCES

Executive Summary

City of Seattle. 2015. City Council Resolution Number 31526. Available at http://clerk.ci.seattle.wa.us/~archives/Resolutions/Resn_31526.pdf. July 21.

Puget Sound Regional Council (PSRC). 2010. *Transportation 2040*. May.

Seattle Department of Transportation (SDOT). 2014a. *Seattle Center City Connector Transit Study Volume I: Locally Preferred Alternative (LPA) Report*. August.

Seattle Department of Transportation (SDOT). 2014b. *Seattle Center City Connector Transit Study Detailed Evaluation Report (Volume II)*. Available at <http://www.seattle.gov/transportation/centercityconnector.htm>. August.

Chapter 1.0 Introduction

None.

Chapter 2.0 Project Purpose and Need

King County Metro. 2002. Regional Smart Bus Demonstration Project Evaluation Report, Automatic Passenger Counter. King County Metro. Available at <http://metro.kingcounty.gov/am/vehicles/smartbus/0902-er-counter.html>. Last accessed: December 7, 2015.

Puget Sound Regional Council (PSRC). 2014. *Land Use Targets Maintenance Release 1*.

Seattle Department of Transportation (SDOT). 2011. *Seattle Transit Master Plan Briefing Book*. Available at http://www.seattle.gov/transportation/tmp_bbook.htm February.

Seattle Department of Transportation (SDOT). 2012. *Transit Master Plan*. April.

Seattle Department of Transportation (SDOT). 2014. *Seattle Center City Connector Transit Study Volume I: Locally Preferred Alternative (LPA) Report*. August.

TomTom International. 2015. TomTom Traffic Index. Available at www.tomtom.com/en_gb/trafficindex. Last cited December 7, 2015.

Visit Seattle. 2013. *2013 Annual Report*.

Chapter 3.0 Alternatives

Seattle Department of Transportation (SDOT). 2012. *Transit Master Plan*. April.

Seattle Department of Transportation (SDOT). 2014a. *Seattle Center City Connector Transit Study Volume I: Locally Preferred Alternative (LPA) Report*. August.

Seattle Department of Transportation (SDOT). 2014b. *Seattle Center City Connector Transit Study Detailed Evaluation Report (Volume II)*. Available at <http://www.seattle.gov/transportation/centercityconnector.htm>. August.

Seattle Department of Transportation (SDOT). 2014c. *City of Seattle Bicycle Master Plan*. April

Chapter 4.0 Affected Environment, Consequences, and Mitigation Measures

4.0 Introduction

Seattle Department of Transportation (SDOT). 2014a. *Center City Connector Cultural, Historic, and Archaeological Technical Report*. March.

Seattle Department of Transportation (SDOT). 2014b. *Center City Connector Transportation Technical Report*. March.

Seattle Department of Transportation (SDOT). 2014c. *Center City Connector Visual and Aesthetic Resources Technical Report*. March.

Seattle Department of Transportation (SDOT). 2014d. *Center City Connector Cultural, Historic, and Archaeological Technical Report*. March.

4.1 Transportation

City of Seattle. 2015. *Vision Zero: Seattle Plan to End Traffic Deaths and Serious Injuries by 2030*. Available at <http://www.seattle.gov/Documents/Departments/beSuperSafe/VisionZeroPlan.pdf>. February.

DKS Associates. 2015. *Next Generation ITS – Center City Connector Streetcar Vissim Analysis Draft Report*. September.

King County Metro. 2012. *Downtown Southend Transit Study*. August.

Seattle Department of Transportation, 2005. *Curb Ramp Installation Policies and Transition Plan*.

Seattle Department of Transportation (SDOT). 2007. *City of Seattle Complete Streets* (Ordinance 122386).

Seattle Department of Transportation, April 2009. *Seattle Pedestrian Master Plan Issue Paper: ADA Transition Plan*.

http://www.seattle.gov/transportation/pedestrian_masterplan/docs/IssuePaperADATransitionPlan_rev.pdf.

Seattle Department of Transportation (SDOT). 2012. *Seattle Right-of-Way Improvement Manual*. August.

Seattle Department of Transportation (SDOT). 2014a. *City of Seattle Bicycle Master Plan*. October.

Seattle Department of Transportation (SDOT). 2014b. *City of Seattle Bicycle Master Plan Subsequent Implementation Plan*.

Seattle Department of Transportation. Blog Post August 21, 2015.

<http://sdotblog.seattle.gov/2015/08/21/sdot-is-evaluating-over-21000-curb-ramps/>.

4.2 Air Quality and Greenhouse Gas

Puget Sound Regional Council (PSRC). 2014. *Transportation Plan 2040*. May.

U.S. Environmental Protection Agency (EPA). 1992. *Guideline for Modeling Carbon Monoxide from Roadway Intersections*. November.

U.S. Environmental Protection Agency (EPA). 2010. *Using MOVES in Project-Level Carbon Monoxide Analyses*. December.

Federal Highway Administration (FHWA). 2012. *Interim Guidance Update on Mobile Source Air Toxic Analysis in NEPA*. Available at http://www.fhwa.dot.gov/environment/air_quality/air_toxics/policy_and_guidance/ajintguidm.m.cfm. August.

Washington State Department of Transportation (WSDOT). 1999. *Memorandum of Agreement—Fugitive Dust*. Seattle, Washington. December.

Washington State University Northwest International Air Quality Environmental Science and Technology Consortium (NW AIRQUEST). Location input latitude: 47.61026, longitude: 122.3414. <http://lar.wsu.edu/nw-airquest/lookup.html>. Last accessed December 2014.

Puget Sound Regional Council (PSRC). 2014. *Current Central Puget Sound Region Designated Maintenance and Nonattainment Areas*. Available at <http://www.psrc.org/assets/11904/Designated-Maint-Nonattain-Areas-201402.pdf>. February.

U.S. Environmental Protection Agency (EPA). N.D. *AirData Interactive Map: Seattle Beacon Hill Station*. Available at http://www.epa.gov/airdata/ad_maps.html. Last accessed December 2014

Washington State Department of Ecology (Ecology). N.D. *Seattle Queen Anne Hill Station*. Available at <https://fortress.wa.gov/ecy/enviwa/>. Accessed December 2014.

4.3 Noise and Vibration

Federal Transit Administration (FTA). 2006a. *Transit Noise and Vibration Impact Assessment*. May.

Federal Transit Administration (FTA). 2006b. *Transit Noise and Vibration Guidance Manual*. May.

Parsons Brinckerhoff. 2005. *South Lake Union Streetcar Project Noise and Vibration Technical Report*. March.

4.4 Land Use

City of Seattle. 2005. *Seattle's Comprehensive Plan: Toward a Sustainable Seattle (1994-2014)*. Amended 2013.

City of Seattle, Office of the City Clerk. 2008. *Resolution Number 31042*. Available at <http://bit.ly/UHLdGQ>. February 11.

Seattle Department of Transportation (SDOT). 2005. *Seattle Transit Plan*. Available at <http://www.seattle.gov/transportation/transitnetwork.htm>. August.

Seattle Department of Transportation (SDOT). 2008. *Seattle Streetcar Network Development Report*. Available at: <http://www.seattlestreetcar.org/network.htm>. May.

Seattle Department of Transportation (SDOT). 2012. *Transit Master Plan*. Available at http://www.seattle.gov/transportation/tmp_draft.htm. April.

Seattle Department of Transportation (SDOT). 2013. *Center City Connector Transit Study*. July.

4.5 Economics

Brookings Institute. 2009. Value Capture and Tax-Incrementing Financing Options for Streetcar Construction. Available at <http://www.reconnectingamerica.org/resource-center/books-and-reports/2009/value-capture-and-tax-increment-financing-options-for-streetcar-construction/>. Accessed on November 7, 2014.

Bureau of Labor Statistic. 2014. Local Area Unemployment Statistics. Available at <http://www.bls.gov/data/#unemployment>. Accessed on November 6, 2014.

Seattle Department of Transportation (SDOT). 2014. *Seattle Center City Connector Transit Study Detailed Evaluation Report (Volume II)*. Available at <http://www.seattle.gov/transportation/centercityconnector.htm>. August.

City of Seattle. 2014. Center City Connector: Briefing Overview Downtown Transportation Alliance.

Equilibrium Capital. 2010. Streetcars' Economic Impact in the United States. Available at: <http://www.calstreetcar.org/wp-content/uploads/2010/06/Streetcars-Econ-Impact-in-US-May-10.pdf>. Accessed on November 6, 2014.

Melone, Ethan. 2014. City of Seattle, Rail Transit Manager Center City Connector Full Time Equivalent Estimates. Personal Communication on October 27, 2014.

Office of Financial Management. 2014. The Washington Input-Output Model. Available at <http://www.ofm.wa.gov/economy/io/>. Accessed on November 6, 2014.

Puget Sound Regional Council (PSRC). 2014. 2013 Forecast Products. Available at <http://www.psrc.org/data/forecasts/2013-forecast-products/>. Accessed on October 24, 2014.

Puget Sound Regional Council (PSRC). 2014. *2013 Forecast Products*. Available at <http://www.psrc.org/data/forecasts/2013-forecast-products/>. Accessed on October 24, 2014.

U.S. Bureau of Labor Statistics. 2014. *Local Area Unemployment Statistics*. Available at <http://www.bls.gov/data/#unemployment>. Accessed on November 6, 2014.

U.S. Census Bureau. 2010. Decennial Census.

Washington State Office of Financial Management. 2014. *The Washington Input-Output Model*. Available at <http://www.ofm.wa.gov/economy/io/>. Accessed on November 6, 2014.

4.6 Social and Community Effects

City of Seattle. 2005. *Seattle's Comprehensive Plan: Toward a Sustainable Seattle (1994-2014)*. Amended 2013.

Puget Sound Regional Council (PSRC). 2014. *2013 Forecast Products*. Available at <http://www.psrc.org/data/forecasts/2013-forecast-products/>. Accessed on October 24, 2014.

U.S. Census Bureau. 2010. Decennial Census.

U.S. Census Bureau. 2012. 2008-2012 American Community Survey.

4.7 Visual and Aesthetics Resources

Seattle Department of Transportation (SDOT). *Seattle Streetcar Center City Connector; Transitway and Station Concepts, Precedents, Tools & Vision for First Avenue*. January.

Federal Highway Administration (FHWA). 1981. *Visual Impact Assessment for Highway Projects*.

Seattle Department of Transportation (SDOT). 2015a. *Center City Connector Visual and Aesthetic Resources Technical Report*. March.

Seattle Department of Transportation (SDOT). 2015b. *Center City Connector Urban Design Analysis – Urban Context and Historical Setting*. January.

Seattle Department of Transportation (SDOT). 2015c. in *Seattle Streetcar Center City Connector; Transitway and Station Concepts, Precedents, Tools and Vision for First Avenue*. January.

4.8 Stormwater/Water Quality

City of Seattle. 2014. Review Draft for the 2015 *City of Seattle Stormwater Manual*. April.

Puget Sound Regional Council (PSRC). 2014. Travel Demand Forecast Model.

4.9 Utilities, Energy, and Electromagnetic Fields

Puget Sound Regional Council (PSRC). 2014. Travel Demand Forecast Model.

Seattle City Light. 2013. *2013 Annual Report*. Available at <http://www.seattle.gov/light/Pubs/annualrpts.asp>. Accessed on September 26, 2014.

Seattle Department of Transportation (SDOT). 2015. *Center City Connector Transportation Technical Report*. March.

4.10 Hazardous Materials

Environmental Data Resources, Inc. (EDR). 2014a. Inquiry Number 4114633.5s, Seattle CCC, King, Washington. October 24, 2014.

Environmental Data Resources, Inc. (EDR). 2014b. Inquiry Number 4067008.2s, Seattle CCC, 705 S Charles St, Seattle, Washington, 98134. September 16, 2014.

Environmental Data Resources, Inc. (EDR). 2014c. Inquiry Number 4067008.12s, Seattle CCC, South Lake Union Parcel, 318 Fairview Ave N, Seattle, Washington, 98109. September 16, 2014.

Touchstone SLU LLC. 2013. Groundwater Monitoring Report, Third Quarter 2013 (Troy Laundry Property, Seattle, Washington). Prepared by Sound Earth Strategies. October 6.

Touchstone SLU LLC. 2014. Engineering Design Report, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. Prepared by Sound Strategies. February 13.

Washington Department of Ecology (Ecology). 2014. "Troy Laundry Site Fact Sheet." Publication Number 14-09-290. March. Available at <https://fortress.wa.gov/ecy/gsp/DocViewer.ashx?did=25971>.

Washington State Department of Natural Resources. 2014. Subsurface Geology Information System. Available at <https://fortress.wa.gov/dnr/geology/?Theme=subsurf>. Accessed November 24, 2014.

4.11 Geologic and Soil Resources

King County. 2010. *King County National Earthquake Hazard Reduction Program Soils Site Classes*. Available at <http://your.kingcounty.gov/dnrp/library/water-and-land/flooding/local-hazard-mitigation-plan-update/earthquake-soils-hazard-map.pdf>. Accessed November 2014.

King County. 2014. *King County Flood Control District Hazard Mitigation Plan*. Available at <http://www.kingcounty.gov/environment/waterandland/flooding/flood-control-zone-district/local-hazard-mitigation-plan-update/hazard-maps.aspx>. Last updated March 25, 2014. Accessed November 2014.

Touchstone SLU LLC. 2014. Engineering Design Report, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. Prepared by Sound Strategies. February 13.

Troost, K.G. and D.B. Booth. 2008. Geologic Map of Seattle, Open File Report 2005-1252. Geology of Seattle and Seattle Area. Including geological formations and Seattle Fault Zone map.

Troost, K.G., D.B. Booth, A.P. Wisher, and S.A. Shimel (Troost et al.). 2005. The Geologic Map of Seattle, a Progress Report. U.S. Geological Survey Open-File Report 2005-1252, Scale 1:24000.

Washington State Department of Natural Resources. 2014. Washington Interactive Geologic Map. Interactive database includes numerous data points for subsurface data. Available at <https://fortress.wa.gov/dnr/geology/?Theme=subsurf>. Accessed November 2014.

4.12 Public and Emergency Services

Federal Transit Administration (FTA). 2006. *Implementation Guidelines for 49 CFR Part 659*. March.

Seattle Department of Transportation (SDOT). 2013. *Seattle Streetcar System Safety Program Plan*. August.

Seattle Department of Transportation (SDOT). 2014. *Center City Connector Transportation Technical Report*. March.

Seattle Fire Department (SFD). 2014. *Emergency Response Report*.

4.13 Parks and Recreational Resources

Seattle Parks and Recreation. 2009. Seattle Park's Classification. April.

4.14 Historic, Cultural, and Archaeological Resources/Section 106

Kreisman, Lawrence. 1986. Seattle Chinatown Historic District. National Register of Historic Places Inventory – Nomination Form. United States Department of the Interior. National Park Service. Ed. Leonard Garfield, Archaeology and Historic Preservation. Urban Conservation Specialist.

National Park Service. 1995. *Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings*.

Northwest Archaeological Associates, Inc. 2006. *Geoarchaeological Examination of Solid-Core Geoprobe: Alaskan Way Viaduct and Seawall Replacement Project*. Washington State Department of Transportation, Seattle, Washington.

Seattle Department of Neighborhoods. N.D.(a). *Pioneer Square Historical District History*. http://www.seattle.gov/neighborhoods/preservation/pioneersquare_history.htm. Accessed September 19, 2014.

Seattle Department of Neighborhoods. N.D.(b). International Special Review District: History of the International District. http://www.seattle.gov/neighborhoods/preservation/id_history.htm. Accessed September 22, 2014.

Seattle Department of Transportation (SDOT). 2015a. *Center City Connector Cultural, Historic and Archaeological Resources Technical Report*.

Seattle Department of Transportation (SDOT). 2015b. *Center City Connector Noise and Vibration Technical Report*. Seattle Center City Transit Study.

Seattle Department of Transportation (SDOT). 2015c. *Center City Connector Visual and Aesthetic Resources Technical Report*.

4.15 Environmental Justice

Federal Highway Administration (FHWA). 2012. USDOT Order 5610.2(a), *Order to Address Environmental Justice in Minority Populations and Low-Income Populations*. May 2.

The White House. 1994. *Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*. February 16.

Seattle Public Schools. 2013. Lowell Elementary School Reports 2012-2013. Available at: http://www.seattleschools.org/UserFiles/Servers/Server_543/File/Migration/Schools/School%20Directory/Departmental%20Content/siso/schoolreports/2012/SchoolReport_2012_245.pdf

U.S. Census Bureau. 2012. 2008-2012 American Community Survey.

5.0 Cumulative Impacts

City of Seattle. 2005. *Seattle's Comprehensive Plan: Toward a Sustainable Seattle (1994-2014)*. Amended 2013.

City of Seattle. 2014. Review Draft for the 2015 *City of Seattle Stormwater Manual*. April.

Council on Environmental Quality (CEQ). 1997. *Considering Cumulative Effects under the National Environmental Policy Act*.

Council on Environmental Quality (CEQ). 2005. *Guidance on the Consideration of Past Actions in Cumulative Effects Analysis*.

Federal Highway Administration (FHWA). 2003. *Interim Guidance: Questions and Answers Regarding Indirect and Cumulative Impact Considerations in the NEPA Process*.

Federal Transit Administration (FTA). 2006. *Transit Noise and Vibration Guidance Manual*. May.

ICF Consulting. 2005. *Executive Order 13274 Indirect and Cumulative Effects Work Group Draft Baseline Report*.

National Cooperative Highway Research Program. 2006. *Indirect and Cumulative Impact Analysis*.

Puget Sound Regional Council (PSRC). 2010a. *VISION 2040*.

Puget Sound Regional Council (PSRC). 2010b. *Transportation 2040*. May.

Seattle Parks and Recreation. 2006. *Central Waterfront Master Parks Plan Final Environmental Impact Statement*. September.

U.S. Environmental Protection Agency (EPA). 1999. *Consideration of Cumulative Impacts in EPA Review of NEPA Documents*.

Chapter 6.0 Mitigation Measures

Seattle Public Utilities. 2009. *Stormwater Manual. Volume 2: Construction Stormwater Control Technical Requirement Manual. Director's Rules for Seattle Municipal Code Chapters 22.800 – 22.808*. November.

Chapter 7.0 Public, Tribe, and Agency Coordination and Involvement

Seattle Department of Transportation (SDOT). 2014. *Seattle Center City Connector Transit Study Detailed Evaluation Report (Volume II)*. August.

APPENDIX A.3

List of Recipients

A.3 LIST OF RECIPIENTS

Federal Agencies

U.S. Environmental Protection Agency, Region 10

U.S. Environmental Protection Agency Environmental Review, Washington Operations

U.S. Department of the Interior

National Parks Service

Advisory Council of Historic Preservation

U.S. Fish and Wildlife

National Oceanic and Atmospheric Administration (NOAA) Fisheries

Tribes

Muckleshoot Indian Tribe

Snoqualmie Tribe

Stillaguamish Tribes

Tulalip Tribe

Yakama Nation

State Agencies

Washington Department of Ecology

Washington State Department of Transportation

Washington State Ferries

Washington Department of Archaeology and Historic Preservation, State Historic Preservation Officer

City

Seattle Fire Department

Seattle Police department

Seattle City Light

Seattle Public Utilities

Seattle Parks and Recreation

Seattle Department of Planning and Community Development

Seattle Department of Construction and Inspections

Department of Neighborhoods, Historic Preservation

Seattle Center

International District-Chinatown Community Center

Seattle Central Library

Seattle Library International District-Chinatown Branch

Seattle Design Commission

Pioneer Square Preservation Board

Pike Place Market Historical Commission

Columbia City Landmark District

International Special Review District

Seattle Landmarks Preservation Board

Seattle Bicycle Advisory Board

Seattle Pedestrian Advisory Board

Seattle Freight Advisory Board

County/Regional

King County Department of Transportation, Metro

Port of Seattle

Community Transit

Sound Transit

Pierce County Transit

Puget Sound Regional Council

Elected Officials

Seattle Mayor's Office

Seattle City Council

King County Executive

King County Council

Sound Transit CEO

Port of Seattle CEO

Port of Seattle Commissioners

Community Groups/Neighborhood Organizations/Others

Seattle Chinatown International Public Development Authority (SCIDpda)

Chinatown International District Business Improvement Area (CIDBIA)

Interim Community Development Association (ICDA)

Greater Seattle Chinese Chamber of Commerce

Downtown Seattle Association (DSA)

The Urban League

South Lake Union Chamber of Commerce

Pioneer Square Residents Council

Downtown Residents Council

Duwamish Tribe

APPENDIX A.4

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LTK

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