

# Appendix F List of Acronyms

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|                   |   |
|-------------------|---|
| °C                | degrees Celsius   |
| °F                | degrees Fahrenheit  |
| µg/kg             | micrograms per kilogram   |
| µg/L              | micrograms/liter  |
| µg/m <sup>3</sup> | micrograms per cubic meter  |
| AADT              | annual average daily traffic  |
| AAQS              | ambient air quality standards   |
| AB                | Assembly Bill   |
| ac                | acre/acres  |
| ACMs              | asbestos-containing materials   |
| ACP               | asbestos cement pipe  |
| ADA               | Americans with Disabilities Act   |
| ADI               | Area of Direct Impacts  |
| ADL               | Aerially Deposited Lead   |
| ADT               | average daily traffic   |
| AFD               | Anaheim Fire Department   |
| AHERA             | Asbestos Hazard Emergency Response Act  |
| AHS               | American Housing Survey   |
| Alternative 1     | Add General-Purpose Lanes (GP Lanes Alternative)                                    |
| Alternative 2     | Add General-Purpose Lanes and Extend Express Lanes (GP + Express Lanes Alternative) |
| amsl              | above mean sea level  |
| APE               | Area of Potential Effects   |
| APN               | Assessor's Parcel Number  |
| APUD              | Anaheim Public Utilities Department   |
| AQMP              | Air Quality Management Plan   |
| ARB               | California Air Resources Board  |
| ARTBA             | American Road and Transportation Builders Association                               |
| ARTIC             | Anaheim Regional Transportation Intermodal Center                                   |
| ASGCA             | American Society of Golf Course Architects  |
| ASR               | Archaeological Survey Report  |
| AST               | aboveground storage tank  |
| ASTM              | American Society for Testing and Materials  |
| AT&T              | AT&T/PacBell  |
| AUSD              | Alvord Unified School District  |
| BA                | Biological Assessment   |
| BACM              | best available control measures   |

|                               |  |
|-------------------------------|--|
| Basin                         | South Coast Air Basin  |
| Basin Plan                    | Regional Water Quality Control Board Water Quality Control Plan                                  |
| BAT/BCT                       | Best Available Technology (Economically Feasible)/Best Conventional Pollutant Control Technology |
| bgs                           | below ground surface   |
| BMPs                          | best management practices  |
| BNSF                          | Burlington Northern Santa Fe   |
| BO                            | Biological Opinion   |
| BSA                           | biological study area  |
| BTEX                          | benzene, toluene, ethylbenzene, and xylenes  |
| BTU                           | British thermal unit   |
| BUOW                          | burrowing owl  |
| C <sub>2</sub> F <sub>6</sub> | Hexafluoroethane   |
| CAA                           | Clean Air Act  |
| CAB                           | Capital Appreciation Bond  |
| CaCO <sub>3</sub>             | calcium carbonate  |
| CAGN                          | California gnatcatcher   |
| CAL FIRE                      | California Department of Forestry and Fire Protection  |
| Cal/EPA                       | California Environmental Protection Agency   |
| California Register           | California Register of Historical Resources  |
| Cal-IPC                       | California Invasive Plant Council  |
| Cal-OSHA                      | California Division of Occupational Safety and Health Administration                             |
| Caltrans                      | California Department of Transportation  |
| CASSA                         | Criteria Area Species Survey Area  |
| CCAA                          | California Clean Air Act   |
| CCP                           | Construction Contingency Plan  |
| CCR                           | California Code of Regulations   |
| CDFG                          | California Department of Fish and Game   |
| CDMG                          | California Department of Mines and Geology   |
| CDPR                          | California Department of Parks and Recreation  |
| CE                            | Categorical Exclusion (under NEPA); also Categorical Exemption (under CEQA)                      |
| CE/CE                         | Categorical Exemption/Categorical Exclusion  |
| CEC                           | California Energy Commission   |
| CEQ                           | Council on Environmental Quality   |
| CEQA                          | California Environmental Quality Act   |
| CER                           | Cost Estimate Review   |

|                 |  |
|-----------------|--|
| CERCLA          | Comprehensive Environmental Response, Compensation and Liability Act of 1980 |
| CERFA           | Community Environmental Response Facilitation Act                            |
| CESA            | California Endangered Species Act  |
| CETAP           | Community and Environmental Transportation Acceptability Process             |
| CF <sub>4</sub> | tetrafluoromethane   |
| CFD             | Corona Fire Department   |
| CFR             | Code of Federal Regulations  |
| cfs             | cubic feet per second  |
| CGS             | California Geological Survey   |
| CGV             | Compass Growth Vision  |
| CH <sub>4</sub> | methane  |
| CHHSL           | California Human Health Screening Level                                      |
| CHP             | California Highway Patrol  |
| CHSP            | Chino Hills State Park   |
| CIA             | <i>Community Impact Assessment</i>   |
| CIB             | Current Interest Bond  |
| CIDH            | cast in drilled hole   |
| CIP             | Corridor Improvement Project   |
| CMP             | Contaminant Management Plan  |
| CNDDB           | California Natural Diversity Database  |
| CNF             | Cleveland National Forest  |
| CNPS            | California Native Plant Society  |
| CNUSD           | Corona-Norco Unified School District   |
| CO              | carbon monoxide  |
| CO <sub>2</sub> | carbon dioxide   |
| CO-CAT          | The Coastal and Ocean Resources Working Group for the Climate Action Team    |
| COLD            | cold freshwater habitat  |
| CORP            | California Outdoor Recreation Plan   |
| Corps           | United States Army Corps of Engineers  |
| COZEEP          | Construction Zone Enhanced Enforcement Program                               |
| CPA             | Consumer Power and Conservation Financing Authority                          |
| CPTC            | California Private Transportation Company                                    |
| CPUC            | California Public Utilities Commission                                       |
| CSC             | Customer Service Center  |
| CSS             | coastal sage scrub   |
| CVC             | California Vehicle Code  |
| CWA             | Clean Water Act  |

|                        |   |
|------------------------|---|
| CZMA                   | Coastal Zone Management Act of 1972                         |
| dB                     | decibels  |
| dBA                    | A-weighted decibels   |
| dbh                    | diameter at breast height                                   |
| DDD                    | dichlorodiphenyldichloroethane                              |
| DDE                    | dichlorodiphenyldichloroethylene                            |
| DDT                    | dichlorodiphenyltrichloroethane                             |
| Department             | California Department of Transportation                     |
| Department Master Plan | <i>215/91 Landscape Corridor Master Plan</i>                |
| DHHS                   | Department of Health and Human Services                     |
| DOI                    | United States Department of Interior                        |
| DOT                    | United States Department of Transportation                  |
| DPM                    | diesel particulate matter plus diesel exhaust organic gases |
| DRIR                   | <i>Draft Relocation Impact Report</i>                       |
| DSA                    | Disturbed Soil Area   |
| DSI                    | Detailed Site Investigation                                 |
| DTSC                   | California Department of Toxic Substances Control           |
| DUs                    | dwelling units  |
| EA                     | Environmental Assessment                                    |
| ECR                    | Environmental Commitments Record                            |
| EDR                    | Environmental Database Report                               |
| EIR                    | Environmental Impact Report                                 |
| EIR/EIS                | Environmental Impact Report/Environmental Impact Statement  |
| EIS                    | Environmental Impact Statement                              |
| El.                    | elevation   |
| EO                     | Executive Order   |
| EOS                    | edge of shoulder  |
| EPA                    | United States Environmental Protection Agency               |
| ESAs                   | Environmentally Sensitive Areas                             |
| ESF                    | Environmental Screening Form                                |
| ESL                    | English as a Second Language                                |
| ETC                    | electronic toll collection                                  |
| FAQ                    | Frequently Asked Question                                   |
| Fed-OSHA               | Federal Occupational Safety and Health Administration       |
| FEIR                   | Final Environmental Impact Report                           |
| FEIS                   | Final Environmental Impact Statement                        |
| FEMA                   | Federal Emergency Management Agency                         |
| FESA                   | Federal Endangered Species Act                              |
| FHA                    | Federal Housing Administration                              |
| FHWA                   | Federal Highway Administration                              |

|          |   |
|----------|---|
| FIFRA    | Federal Insecticide, Fungicide, and Rodenticide Act |
| FIRMs    | Flood Insurance Rate Maps                           |
| FMMP     | Farmland Mapping and Monitoring Program             |
| FOE      | Finding of Effect                                   |
| FONSI    | Finding of No Significant Impact                    |
| FPPA     | Farmland Protection Policy Act                      |
| FRA      | Federal Railroad Administration                     |
| FRIR     | Final Relocation Impact Report                      |
| ft       | feet/foot   |
| FTA      | Federal Transit Administration                      |
| FTIP     | Federal Transportation Improvement Program          |
| GHG      | greenhouse gas                                      |
| GIS      | geographic information system                       |
| GMA      | Growth Management Areas                             |
| GMC      | Growth Management Chapter                           |
| GP       | general-purpose (lane)                              |
| ha       | hectare(s)  |
| HASP     | Health and Safety Plan                              |
| HCM      | <i>Highway Capacity Manual</i>                      |
| HCP      | Habitat Conservation Plan                           |
| HCS      | Highway Capacity Software                           |
| HEC-RAS  | Hydrologic Engineering Center River Analysis System |
| HEI      | Health Effects Institute                            |
| HFC-134a | s,s,s,2-tetrafluoroethane                           |
| HFC-152a | difluoroethane                                      |
| HFC-23   | fluoroform  |
| HFCs     | hydrofluorocarbons                                  |
| HMMP     | Habitat Mitigation and Monitoring Plan              |
| HOT      | high-occupancy toll                                 |
| HOV      | high-occupancy vehicle                              |
| HPSR     | Historic Property Survey Report                     |
| HRER     | Historical Resources Evaluation Report              |
| HSR      | High Speed Rail                                     |
| HUD      | Department of Housing and Urban Development         |
| I-110    | Interstate 110                                      |
| I-15     | Interstate 15                                       |
| I-215    | Interstate 215                                      |
| I-5      | Interstate 5  |
| IEOC     | Inland Empire-Orange County                         |
| IEPR     | Integrated Energy Policy Report                     |

|              |   |
|--------------|---|
| IFP          | Initial Financial Plan  |
| in           | inch/inches   |
| in/sec       | inches per second   |
| in/yr        | inches per year   |
| Inventory    | California Invasive Plant Inventory                               |
| IPCC         | Intergovernmental Panel on Climate Change                         |
| IRIS         | Integrated Risk Information System                                |
| IS           | Initial Study   |
| ISA          | <i>Initial Site Assessment</i>                                    |
| JPARP        | Joint Project Acquisition/Review Process                          |
| JPR          | Joint Project Review  |
| JTU          | Jackson turbidity units   |
| JUA          | Joint use agreement   |
| kV           | kilovolt  |
| kWh          | kilowatt-hour(s)  |
| L&WCF        | Land and Water Conservation Fund                                  |
| LACM         | Natural History Museum of Los Angeles County                      |
| LBP          | lead-based paint  |
| LBV          | least Bell's vireo  |
| LDV          | light-duty vehicle  |
| LED          | light-emitting diode  |
| LEDPA        | Least Environmentally Damaging Practicable Alternative            |
| $L_{eq}$     | equivalent noise level  |
| $L_{eq}(h)$  | equivalent continuous noise level over a specified period of time |
| LHS          | Location Hydraulic Study  |
| LOMR         | Letter of Map Revision  |
| LOS          | levels of service   |
| LPA          | Locally Preferred Alternative                                     |
| LPS          | Locally Preferred Strategy  |
| LUST         | leaking underground storage tank                                  |
| MA           | metropolitan area   |
| Master Plan  | <i>215/91 Landscape Corridor Master Plan</i>                      |
| MBTA         | Migratory Bird Treaty Act   |
| MCE          | Maximum Credible Earthquake                                       |
| MCP          | Mid County Parkway  |
| MDP          | Master Drainage Plan  |
| mg/L         | milligrams per liter  |
| mi           | miles   |
| MIS          | Major Investment Study  |
| MIS Corridor | Riverside County-Orange County MIS Corridor                       |

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|                    |  |
|--------------------|--|
| mL                 | milliliters  |
| MLD                | Most Likely Descendant                             |
| MLS                | Multiple Listing Service                           |
| M <sub>max</sub>   | maximum moment magnitude                           |
| MND                | Mitigated Negative Declaration                     |
| MOU                | Memorandum of Understanding                        |
| mpg                | miles per gallon                                   |
| mph                | miles per hour                                     |
| MPO                | Metropolitan Planning Organization                 |
| MRZ                | Mineral Resources Zone                             |
| MS4                | Municipal Separate Storm Sewer System              |
| MSAT               | Mobile Source Air Toxics                           |
| MSHCP              | Multiple Species Habitat Conservation Plan         |
| MTBE               | methyl tertiary-butyl ether                        |
| MUN                | municipal water supply                             |
| MUTCD              | <i>Manual on Uniform Traffic Control Devices</i>   |
| mya                | million years ago                                  |
| N                  | nitrogen   |
| N <sub>2</sub> O   | nitrous oxide                                      |
| NAAQS              | national ambient air quality standards             |
| NAC                | noise abatement criteria                           |
| NADR               | <i>Noise Abatement Decision Report</i>             |
| NAHC               | Native American Heritage Commission                |
| NATA               | National Air Toxics Assessment                     |
| National Register  | National Register of Historic Places               |
| NB                 | Noise Barrier                                      |
| NCCP               | Natural Communities Conservation Plan              |
| NCHRP              | National Cooperative Highway Research Program      |
| ND                 | Negative Declaration                               |
| NEPA               | National Environmental Policy Act                  |
| NEPSSA             | Narrow Endemic Plant Species Survey Area           |
| NES                | <i>Natural Environment Study</i>                   |
| New OC Park (NNL)  | New Orange County Park (National Natural Landmark) |
| NFA                | No Further Action                                  |
| NFD                | City of Norco Fire Department                      |
| NH <sub>3</sub> -N | ammonia nitrogen                                   |
| NHPA               | National Historic Preservation Act of 1966         |
| NNL                | National Natural Landmark                          |
| NO <sub>2</sub>    | nitrogen dioxide                                   |
| NO <sub>3</sub>    | nitrate  |

|                 |  |
|-----------------|--|
| NOA             | naturally occurring asbestos                               |
| NOAA            | National Oceanic and Atmospheric Administration            |
| NOD             | Notice of Determination                                    |
| NOI             | Notice of Intent   |
| NOP             | Notice of Preparation                                      |
| NOT             | Notice of Termination                                      |
| NO <sub>x</sub> | oxides of nitrogen   |
| NPDES           | National Pollutant Discharge Elimination System            |
| NPS             | National Park Service                                      |
| NRCS            | Natural Resources Conservation Service                     |
| NSR             | <i>Noise Study Report</i>                                  |
| NTU             | nephelometric turbidity units                              |
| O <sub>3</sub>  | ozone  |
| OC              | Orange County  |
| OC Parks        | Orange County Parks  |
| OCFA            | Orange County Fire Authority                               |
| OCFCD           | Orange County Flood Control District                       |
| OCG             | Orange County Gateway                                      |
| OCHCA           | Orange County Health Care Agency                           |
| OCPW            | Orange County Public Works                                 |
| OCSD            | Orange County Sheriff's Department                         |
| OCTA            | Orange County Transportation Authority                     |
| OCTAM           | Orange County Transportation Analysis Model                |
| OCWD            | Orange County Water District                               |
| OHP             | Office of Historic Preservation                            |
| OHWM            | ordinary high water mark                                   |
| OINCC           | Operational Independence and Non-Concurrent Construction   |
| OSHA            | Occupational Safety and Health Act                         |
| OSTP            | Office of Science and Technology Policy                    |
| PA              | Programmatic Agreement                                     |
| PA&ED           | Project Approval and Environmental Document                |
| PAC             | Public Information/Public Awareness Campaign               |
| PAH             | polycyclic aromatic hydrocarbons                           |
| Pb              | lead   |
| pc/mi/ln        | passenger cars per mile per lane                           |
| PCBs            | polychlorinated biphenyls                                  |
| PCE             | perchloroethylene; also Programmatic Categorical Exemption |
| pCi/L           | picocuries per liter                                       |
| PCL             | Proposed Constrained Linkage                               |
| PDF             | Project Design Feature                                     |

|                      |   |
|----------------------|---|
| PDPM                 | <u>Project Development and Procedures Manual</u>                      |
| PDT                  | Project Development Team  |
| PeMS                 | Performance Monitoring System   |
| PFCs                 | perfluorocarbons  |
| pH                   | percentage of hydrogen  |
| Phase I ESA          | Phase I Environmental Site Assessment                                 |
| PM                   | Post Mile   |
| PM <sub>10</sub>     | particulate matter less than 10 microns in size                       |
| PM <sub>2.5</sub>    | particulate matter less than 2.5 microns in size                      |
| PMP                  | <i>Paleontological Mitigation Plan</i> ; also Project Management Plan |
| PMR                  | <i>Paleontological Mitigation Report</i>                              |
| PNAAs                | polynuclear aromatic hydrocarbons                                     |
| POAQC                | project of air quality concern  |
| POF                  | Plan of Finance   |
| POM                  | polycyclic organic matter   |
| Porter-Cologne Act   | Porter-Cologne Water Quality Control Act                              |
| ppm                  | parts per million   |
| PPV                  | peak particle velocity  |
| PR/ED                | Project Report/Environmental Document                                 |
| PRC                  | Public Resources Code   |
| Preservation Society | Corona Historic Preservation Society                                  |
| Protocol             | (Department) Transportation Project-Level Carbon Monoxide Protocol    |
| PS&E                 | Plans, Specifications and Estimates                                   |
| psig                 | pounds per square inch gauge  |
| PSR/PDS              | Project Study Report/Project Development Support                      |
| PYLUSD               | Placentia-Yorba Linda Unified School District                         |
| QA/QC                | quality assurance/quality control                                     |
| RAP                  | Relocation Assistance Program   |
| RARE                 | Rare, Threatened, or Endangered Species                               |
| RCA                  | Regional Conservation Authority                                       |
| RCB                  | reinforced concrete box   |
| RCCHA                | Riverside County Community Health Agency                              |
| RCDEH                | Riverside County Department of Environmental Health                   |
| RCFC&WCD             | Riverside County Flood Control and Water Conservation District        |
| RCFD                 | Riverside County Fire Department                                      |
| RCP                  | Regional Comprehensive Plan   |
| RCPG                 | Regional Comprehensive Plan and Guide                                 |
| RCRA                 | Resource Conservation and Recovery Act of 1976                        |
| RCSD                 | Riverside County Sheriff's Department                                 |

|                  |  |
|------------------|--|
| RCTC             | Riverside County Transportation Commission   |
| RCTD             | Riverside County Transportation Department   |
| REC1             | Water Contact Recreation   |
| REC2             | Noncontact Water Recreation  |
| RECs             | Recognized Environmental Conditions  |
| Resources Agency | California Resources Agency  |
| RMM              | Riverside Municipal Museum   |
| ROD              | Record of Decision   |
| ROGs             | reactive organic gases   |
| RPWs             | relatively permanent waters  |
| RSA              | resource study area  |
| RSL              | Regional Screening Level   |
| RTA              | Riverside Transit Agency   |
| RTIP             | Regional Transportation Improvement Program  |
| RTP              | Regional Transportation Plan   |
| RUSD             | Riverside Unified School District  |
| RV               | recreational vehicle   |
| RWQCB            | Regional Water Quality Control Board   |
| SAFETEA-LU       | Safe, Accountable, Flexible, and Efficient Transportation Equity Act: A Legacy for Users |
| SANBAG           | San Bernardino Associated Governments  |
| SARI             | Santa Ana River Interceptor  |
| SAWA             | Santa Ana Water Association  |
| SAWPA            | Santa Ana Watershed Project Authority  |
| SB 1316          | Senate Bill 1316   |
| SBCM             | San Bernardino County Museum   |
| SCAG             | Southern California Association of Governments   |
| SCAQMD           | South Coast Air Quality Management District  |
| SCE              | Southern California Edison Company   |
| SCG              | Southern California Gas Company  |
| SCH              | State Clearinghouse  |
| SCRRA            | Southern California Regional Rail Authority  |
| SDC              | Seismic Design Criteria  |
| SEA              | Supplemental Environmental Assessment  |
| SEIS             | Supplemental Environmental Impact Statement  |
| SER              | Standard Environmental Reference   |
| sf               | square foot/feet   |
| SF <sub>6</sub>  | sulfur hexafluoride  |
| SHPO             | State Historic Preservation Officer  |
| SHS              | State Highway System   |

|                 |   |
|-----------------|---|
| SI              | Site Investigation                                      |
| SIP             | State Implementation Plan                               |
| SJBL            | San Jacinto Branch Line                                 |
| SKR             | Stephens' kangaroo rat                                  |
| SKR HCP         | Stephens' Kangaroo Rat Habitat Conservation Plan        |
| SLF             | Sacred Lands File                                       |
| SMAQMD          | Sacramento Metropolitan Air Quality Management District |
| SMGB            | State Mining and Geology Board                          |
| SO <sub>2</sub> | sulfur dioxide  |
| SOC             | Statement of Overriding Considerations                  |
| SOI             | Sphere of Influence                                     |
| SO <sub>x</sub> | sulfur oxide  |
| SPWN            | Spawning Habitat (beneficial use)                       |
| sq mi           | square miles  |
| SR-1            | State Route 1   |
| SR-133          | State Route 133   |
| SR-241          | State Route 241   |
| SR-55           | State Route 55  |
| SR-57           | State Route 57  |
| SR-60           | State Route 60  |
| SR-71           | State Route 71  |
| SR-74           | State Route 74  |
| SR-79           | State Route 79  |
| SR-91           | State Route 91  |
| SSP             | Standard Special Provisions                             |
| Sta.            | Station   |
| State Parks     | State Parks Department                                  |
| STIP            | State Transportation Improvement Program                |
| SVE             | soil vapor extraction                                   |
| SVP             | Society of Vertebrate Paleontology                      |
| SWDR            | Storm Water Data Report                                 |
| SWMP            | Storm Water Management Plan                             |
| SWPPP           | Storm Water Pollution Prevention Plan                   |
| SWRCB           | State Water Resources Control Board                     |
| SWWF            | southwestern willow flycatcher                          |
| TCA             | Transportation Corridor Agencies                        |
| TCAP            | Temescal Canyon Area Plan                               |
| TCE             | temporary construction easement                         |
| TCM             | Transportation Control Measure                          |
| TCWG            | Transportation Conformity Working Group                 |

|             |  |
|-------------|--|
| TDM         | Transportation Demand Management   |
| TDS         | total dissolved solids   |
| TEA         | Transportation Enhancement Activities  |
| TIFIA       | Transportation Infrastructure Finance and Innovation Act                         |
| TIGAR       | The Inland Gateway Association of Realtors                                       |
| TMDL        | total maximum daily load   |
| TMP         | Transportation Management Plan   |
| TNM         | Traffic Noise Model  |
| TNWs        | traditional navigable waters   |
| TOC         | Toll Operations Center   |
| TOG         | total organic gas  |
| TPH-g       | total petroleum hydrocarbons gasoline  |
| TSCA        | Toxic Substances Control Act   |
| TSM         | Transportation Systems Management  |
| TSS         | total suspended solids   |
| TUMF        | Transportation Uniform Mitigation Fee  |
| UCL         | upper confidence limit   |
| UCMP        | University of California, Berkeley Museum of Paleontology                        |
| Uniform Act | Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 |
| UPRR        | Union Pacific Railroad   |
| USA         | Underground Service Alert  |
| USC         | United States Code   |
| USDA        | United States Department of Agriculture  |
| USFS        | United States Forest Service   |
| USFWS       | United States Fish and Wildlife Service  |
| USGS        | United States Geological Survey  |
| UST         | underground storage tank   |
| v/c         | volume-to-capacity (ratio)   |
| VA          | Value Analysis   |
| VCP         | vitriified clay pipe   |
| VHD         | vehicle hours of delay   |
| VHT         | vehicle hours traveled   |
| VIA         | <i>Visual Impact Assessment</i>  |
| VMT         | vehicle miles traveled   |
| VOC         | volatile organic compound  |
| vpd         | vehicles per day   |
| vph         | vehicles per hour  |
| vpiph       | vehicles per lane per hour   |
| WARM        | Warm Freshwater Habitat  |

|       |  |
|-------|--|
| WCB   | Wildlife Conservation Board              |
| WILD  | Wildlife Habitat                         |
| WPCP  | Water Pollution Control Plan             |
| WRCOG | Western Riverside Council of Governments |
| ZEV   | zero emission vehicle                    |

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