MOJAVE ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
114. Realign route between Mojave and floor of San Joaquin Valley to avoid land use problems.	Modifications to the Mojave application have been made incorporating these changes.			

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MOJAVE ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
115. Cross Kern River in a place to avoid major impact to Kern River County Park.	Modifications to the Mojave application have been made incorporating these changes.			

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MOJAVE ONLY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
116. Coordinate aircraft monitor with military installations.	Contact Edwards AFB to establish monitoring procedures.			

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MOJAVE ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
117. Avoid Indian John Springs and Stallion Springs by rerouting.	Modifications to the Mojave application have been made incorporating these changes.			

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MINUTE PAGE 919

MOJAVE ONLY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
118. Reroute through Bakersfield to reduce impact to residential and recreational areas.	Modifications to the Mojave application have been made incorporating these changes.			

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KERN RIVER ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
143. Place pipeline on stable ridgelines to reduce avalanche hazards and use spacial construction methods.	Plans and supporting documentation shall be submitted and reviewed prior to commencement of work. Areas identified as requiring site specific mitigation shall be inspected by a qualified geologist and/or engineer. Not necessary in California.			

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KERN RIVER ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
144. Realign route to use Wasatch Variation to reduce pipeline rupture potential.	Kern River has modified its application to incorporate this change.			

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KERN RIVER ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
145. Investigate cinder cones in Sevier Desert and Lisa Dome.	Plans and supporting documentation shall be submitted and reviewed prior to commencement of work. Areas identified as requiring site specific mitigation shall be inspected by a qualified geologist and/or engineer. Not necessary in California.			

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KERN RIVER ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
146. Directionally drill under Las Vegas Wash.	No longer necessary. Kern River has modified its application to utilize the North Las Vegas Variation.			

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KERN RIVER ONLY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
147. Construction in Bear River shall not occur in April, May, or June.	Construction Plans should reflect schedule in this area. Not necessary in California.			

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KERN RIVER ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
1148. Impacts to fish species of special concern should be avoided by scheduling.	Consult with appropriate agencies to determine streams and timing. Construction plans should reflect schedule to agree with agency recommendations. Not necessary in California.			

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KERN RIVER ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
149. Avoid bighorn sheep migration corridors as specified by appropriate agencies.	Consult with appropriate agency and determine construction windows.			

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KERN RIVER ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
130. Conduct prairie dog surveys to find if BFF present.	Develop plan and submit result of surveys to appropriate agencies. Not necessary in California.			

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KERN RIVER ONLY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
151. If using rodenticide in prairie dog colonies do BFF survey.	Develop Plan and submit results of surveys to appropriate agencies. Not necessary in California.			

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KERN RIVER ONLY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
152. Kern River shall use the North Las Vegas Variation.	FERC Certificate Condition.			

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KERN RIVER ONLY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
153. Aircraft monitoring shall be coordinated with nearby military installations, e.g., Edwards AFB and Ft. Irwin.	Contact Ft. Irwin and other bases as required. Edwards AFB will no longer is crossed by Kern River.			

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KERN RIVER ONLY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
154. Select route through Bakersfield carefully to avoid impacts to residences.	No longer necessary. Kern River will not build in Bakersfield area. See Mojave Mitigation Measure 118.			

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VISUAL RESOURCES

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
109. Prepare a Visual Resources Mitigation Plan.	Mitigation measures outlined in the FEIR/S shall be implemented. A detailed plan outlining the methods and procedures shall prepared prior to construction. SLC monitors will be present to assure compliance with the mitigation measures.			

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VISUAL RESOURCES

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
110. Identify segments of line where vegetative clearing widths would be modified.	CCM Plan.			

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BIOLOGY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.1.1 Construction Drawings and Specifications Mitigation measures presented below shall be specified in all drawings and specifications that are a part of the contract documents for pipelines and other related facilities constructed within the state of California. The requirements that can be depicted in a linear reference, i.e., ROW width, grading width allowed, etc., shall be shown on aerial photo or topographic alignment sheets. Other requirements shall become part of the construction specifications in narrative or line list format.	Plans have been submitted and approved regarding avoidance of sensitive plant and sensitive plant communities. Pre-construction surveys must be conducted prior to commencement of construction activities. Pipeline company biological monitors will be present to assure that no sensitive plants species are impacted during construction. Reviewed during normal biological monitoring inspections.			

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BIOLOGY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.1.2 Construction Scheduling Construction timing windows have been proposed for desert tortoise, blunt-nosed leopard lizard, and Tehachapi slender salamander to reduce incidental take within sensitive species habitat of these species.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.1.3 Preconstruction Surveys Preconstruction surveys for the various endangered, threatened, and sensitive species shall be conducted with aerial photographs or scaled videotapes of the construction corridors taken within the previous 12 months must be completed to aid in determining the preconstruction conditions. A program of on-ground scaled photography taken at mile intervals along the construction ROW shall also be obtained.	Reviewed during normal biological monitoring inspections. Must be submitted prior to initiation of construction.			

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BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.1 Controls on Traffic, Access, and Construction Disturbance Area Project-related activities shall be restricted to established roads, designated access roads, the construction ROW, and other designated project areas and shall be examined during preconstruction surveys. Access roads shall be clearly flagged for use. The construction ROW shall also be clearly marked at the centerline and outside boundaries. Vehicles shall observe a 20 mph speed limit within listed wildlife species habitat. Construction activities shall be limited to daylight hours except excluded activities.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.2 Clearing, Grading, and Dust Control Trees and large shrubs shall be avoided or removed prior to clearing. The upper two to six inches of topsoil from the construction ROW requiring grading shall be removed and windrowed with the vegetation and kept separate from the remaining spoils. Grading shall be limited to that area necessary to permit movement and operation of equipment and shall not be permitted in areas where sensitive plant species occur, until after sensitive plants are removed and transplanted or soil seed banks are removed. Grading shall not occur in riparian areas/stream crossings within 24 hours of a predicted 50 percent chance of precipitation. Hay bales shall be placed at all flowing stream crossings at the end of each work day during the rainy season (December 1 to March 15), and at the end of each work day at other seasons when rain is forecast. Stockpiled topsoil or spoil shall not be exposed near a stream channel or riparian area for more than 30 days.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.3 Topsoil Salvage and Handling Surface material ("topsoil") must be salvaged from trenching and any grading activities for preservation of topsoil and fertility in agricultural areas and existing seedbanks in natural vegetation. Topsoil shall also be salvaged at stream crossings and riparian areas. Topsoil salvage may be done using a double windrow method or other approved method to separate topsoil (the top 2 to 6 inches) from the remaining spoil material. Special care shall be given in areas (e.g., topsoil removal by hand or small mechanical equipment), where sensitive annual species have been found or may occur to stockpile topsoil from this specific habitat and replace this topsoil in the same area.	Review during normal biological monitoring inspections.			

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MINUTE PAGE 545

BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.4 Trenching, Blasting, and Inspections The trench must be backfilled as quickly as possible following lowering of the pipe. The maximum length of open trench at any one time shall not exceed 10 miles. For trenches not filled at the end of the day, escape ramps for wildlife shall be installed at distances no greater than 0.25 mile apart. Open, active work areas and trenches within listed species habitat shall be inspected by environmental monitors every morning (no later than one hour after sunrise) and immediately prior to initiation of daily construction activities, every evening (no more than 1/2 hour after sunset), and periodically (every 2-4 hours) throughout the day. This shall be accomplished seven days a week when open trenches are present. Company environmental monitors shall remove any trapped state and/or federally listed animals from the areas. Listed species of burrowing animals shall be removed from the blast area and up to 50 ft from the ROW in areas to be blasted. Burrows of listed species 50-200 ft from the blasting zone shall be flagged by an environmental monitor prior to blasting and shall be surveyed afterward. Burrows of listed species which collapse as a result of blasting shall be hand-dug to remove any trapped animals.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.5 Backfilling Backfilling of the trench shall be done with an auger backfiller or other suitable equipment where root systems have been preserved and/or where topsoil has been segregated. Where blading has been done, backfilling may be done with a dozer.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.6 Construction Material and Equipment Storage All open construction pipes, culverts, or similar structures stored in stockpile areas or on the ROW for overnight periods shall be inspected for small mammals or reptiles (e.g., San Joaquin kit fox, desert tortoise) before the pipe is buried, capped, or otherwise used or moved in any way. All in-place pipeline segments shall be capped daily until backfilled to prevent entry of animals. Checks around vehicles and other equipment before moving or operating equipment for other sensitive wildlife species shall also be completed prior to moving. If a state and/or federally listed species is identified during these inspections, only an environmental monitor may be utilized to remove the animal.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.7 Pets, Camping, Firearms, and Use of Area No camping shall be permitted on the construction ROW. Only authorized camping areas may be utilized. To prevent harassment, mortality, or destruction of dens/burrows of wildlife species, pets shall not be allowed on the ROW, staging areas, access roads or any other sites required for construction activities. Firearms shall also be prohibited in the same areas. Unauthorized workers shall not be permitted at construction areas during non-scheduled hours.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.8 Trash Control To avoid attracting species of concern and potential predators, all food-related trash and litter (wrappers, cans, bottles, food scraps) shall be placed in closed containers and disposed of daily. The working ROW of each spread shall be policed daily to remove any trash or litter which may not have been disposed of properly.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.9 Handling and Disposal of Hazardous Materials Refueling and storage of hazardous materials shall occur in previously disturbed areas and not be allowed within 200 yards of a flagged sensitive plant species or sensitive wildlife habitat feature, nor within 200 yards of a perennial stream or riparian habitat. Areas where refueling or storage of hazardous materials is prohibited shall be marked by the environmental monitors. The storage of these materials near streams shall be consistent with CDFG code 5650.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.10 Fire Control Procedures No trash-burning fires shall be permitted in the construction area. Vehicles used in the ROW with catalytic converters shall be equipped with shielding or other acceptable fire prevention features. Construction spreads must be equipped with fire extinguishers, with workers trained in their use. Fire resistant mats and/or wind screens shall be placed on the ground below welding and grinding operations whenever dry vegetation is present. Supervisors shall have the names of local fire fighting agencies. A detailed fire plan shall be prepared as a standard part of a BLM Construction, Operation and Maintenance Plan.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.2.11 Collection and Harassment of Species: No intentional killing or collection of either plants or wildlife shall be permitted. If wildlife species, e.g., rattlesnakes enter the construction corridor, they shall be removed by a qualified environmental monitor. No intentional damage to trees or other vegetation shall be permitted outside of the construction ROW; this shall include the collection of plants including cacti without prior authorization.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.3.1 Cleanup After construction is completed, a final ROW cleanup shall include removal of all stakes, lathe, flagging, barrels, cans, drums, accidental spills and any other refuse generated by construction. No shrub material or other plant cover shall be disturbed during this process.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.3.2 Surface Restoration Recontouring to natural lines and grade must be accomplished without disruption to adjacent undisturbed habitat. Sediment collected behind temporary hay bales shall be removed. Permanent water breakers and/or terraces shall be constructed across the ROW on sloping ground to prevent erosion. On steep grades, earth-filled sacks or stone riprap shall be used as determined necessary to stabilize the ground surface.	Reviewed during normal biological monitoring inspections.			

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BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.3.3 Post-Construction Access Control The objective of post-construction access control is to implement procedures to limit access on the permanent ROWs in order to limit additional intrusion into wildlife habitat and speed recovery and revegetation of the ROW. Required inspection of the ROW shall be conducted by air to detect encroachment. Travel by maintenance crews shall be restricted to existing access roads. Maintenance vehicles must avoid sensitive areas designated in the post-construction monitoring program. The permanent ROW may be used to access the pipeline in emergency situations as defined under conditions stipulated by the Agencies. Damage to vegetation on the ROW shall be fixed and the ROW restored as soon as possible following the emergency. The appropriate agencies shall be notified. Signs shall be posted indicating the ROW is closed to vehicles.	Reviewed during normal biological monitoring inspections. Should be checked in post-construction inspections.			

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BIOLOGY

COMPANY: _____ SPREAD: _____

MONITOR: _____

MITIGATION MEASURE	REQUIREMENT TO COMPLY	DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.3.4 Post-Construction Environmental Monitoring and Reporting Post-construction monitoring shall meet two basic objectives: 1) to assess actual impacts that occur during construction, and 2) to monitor revegetation and other mitigations. Post-construction inspection of the project area shall be conducted by the environmental monitoring team after completion of clean up, surface restoration, and revegetation. A final construction monitoring report shall be prepared. Post-construction monitoring shall be undertaken at the end of the fifth year of operation.	Reports shall be reviewed by SLC and other identified agencies.			

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BIOLOGY

MITIGATION MEASURE	REQUIREMENT TO COMPLY	COMPANY: _____ SPREAD: _____ MONITOR: _____ DATE/APPROVAL	MILEPOSTS	COMMENTS
3.1.4.1 Equipment Operation Inspection and Maintenance Since most operation of facilities is by remote control, site visits are mainly related to inspection and maintenance. Access to sites shall be limited to access roads, or newly constructed roads approved as part of the project. All personnel shall attend regular meetings to be reminded about safety and environmental concerns.	Plans shall be submitted to SLC and other identified agencies.			

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