

18.0 CUMULATIVE IMPACTS

18.1 INTRODUCTION

This chapter analyzes cumulative impacts, defined as two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. The cumulative impact is the change in the environment that results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time (CEQA Guidelines, Sec. 15355; Public Resources Code Sec. 21083 b).

This PEA examines the potential cumulative impacts of the Lakeville-Sonoma 115 kV Transmission Line project in relation to other existing and likely future projects in the study area (see Table 18-1). This analysis determined that there is not likely to be any significant cumulative change in the environment resulting from the incremental impact of the proposed project when added to these other developments. Consequently, the proposed project is not expected to result in or contribute to significant cumulative impacts.

18.2 METHODOLOGY

To conduct this analysis, a list of reasonably foreseeable future projects was developed by contacting planning staff from the County of Sonoma, City of Sonoma, City of Petaluma, the Local Agency Formation Commission (LAFCO), the Sonoma County Water Agency, and PG&E's transmission planning group. Agency websites (e.g., Caltrans) were also researched for lists of future capital improvement projects in the study area. The planning departments provided the best available information for approved, pending, or planned projects in the study area. These projects are either under construction, have had a development application submitted to the agency, are in the planning process, or have been approved.

With this information, a list of reasonably foreseeable future projects was developed for the cumulative impact analysis (see Table 18-1). The list focuses on relevant large scale projects (e.g., infrastructure, vineyard expansions, commercial/office buildings, subdivisions of four units or more) mainly within the study area shown on Figure 3-2 (Chapter 3). Small scale projects like single-family homes and small infill developments in the City of Sonoma were not included.

The discussion of cumulative impacts for relevant resource topics follows. As explained in Chapter 4, some non-relevant resource topics were eliminated from detailed discussion in this PEA because they would not be impacted; thus they are not discussed in this cumulative impacts chapter either.

18.3 ANALYSIS OF CUMULATIVE IMPACTS

18.3.1 Air Quality

Air quality impacts from construction of the proposed project will be temporary and mitigated to a less than significant level through standard dust control and other best management practices. It is assumed that other projects (listed in Table 18-1) would be subject to similar dust control measures and regulatory controls. Although the project area is currently classified as nonattainment for ozone and particulate matter, the project will comply with all federal, state and local air quality regulations and will be consistent with the Bay Area Air Quality Plan and other Bay Area Air Quality Management District regulations, guidelines and permitting requirements. There will be no long-term significant air emissions associated with the project. Thus, the project will not contribute to significant cumulative air quality impacts in the project area or region.

18.3.2 Biological Resources

Infill projects in the City of Sonoma listed in Table 18-1 are not expected to result in substantial impacts to biological resources because they are on previously developed or farmed lands within an existing urban and suburban landscape, and no special-status species of plants or animals are likely to be adversely affected. Some of the larger projects, including proposed office and industrial buildings on the outskirts of the City of Sonoma and the recycled water pipeline in the City of Petaluma, are likely to result in losses of plant communities and wildlife habitats.

These projects will not likely have a significant impact on any special-status species or sensitive habitats such as wetlands because habitat quality in these areas is marginal (i.e., previously cultivated or disturbed) and mitigation measures developed for these projects are expected to minimize and offset any such impacts. Nonetheless, these projects will probably result in some cumulative loss of foraging habitat and possibly breeding habitat for wildlife.

The proposed project would result in the loss of no more than a few acres of common upland plant communities mostly in an area with little anticipated future development. These losses are less than significant and would not contribute appreciably to cumulative losses of natural biotic communities in the area. Potential effects of the project on special-status species such as Lobb's aquatic buttercup and California red-legged frog would be temporary and would be largely avoided or minimized through project design. With implementation of mitigation measures outlined in Chapter 6, all potential impacts to special-status species would be less than significant and would not contribute appreciably to any cumulative adverse effects on these species.

**Table 18-1
List of Reasonably Foreseeable Future Projects**

| APN / Project Name | Type of Project | Location | Source | Other Information | Distance |
|--|--|--|---------------|--|-------------------|
| APN 017070003 | Small winery with new building | 3062 Adobe Rd (near City of Petaluma) | Sonoma County | | Over 1 mile |
| APN 128422068 | Existing buildings converted to auto repair and metal gate fabrication | 22690 Broadway (near City of Sonoma) | Sonoma County | | Over 1 mile |
| APN 142032005 | Telecommunications tower | 20600 Leveroni Rd (near City of Sonoma) | Sonoma County | | Across the street |
| APN 128422062 | Expand existing mini-storage facility | 22684 Broadway (near City of Sonoma) | Sonoma County | | Over 1 mile |
| APN 017070003, MJS 00-0001, MJS01-0003 | Subdivision | 3062 Adobe Rd (near City of Sonoma) | Sonoma County | Subdivide into 6 lots | Over 1 mile |
| APN 128352019 | Private elementary and high school | 21254 Broadway (near City of Sonoma) | Sonoma County | | 1/4 to 1 mile |
| APN 128412019 | Small winery with no public tasting | 21708 Broadway (near City of Sonoma) | Sonoma County | | Over 1 mile |
| APN 128451054 | Large winery expansion with new buildings and public tasting | 602 Bonneau Rd (near City of Sonoma) | Sonoma County | | Over 1 mile |
| APN 128422068 | Two new metal storage buildings | 22690 Broadway (near City of Sonoma) | Sonoma County | | Over 1 mile |
| 20-acre office / industrial complex | Office / industrial buildings | Corner of Hwy 121 + East 8 th Ave | Sonoma County | 300,000 square feet of buildings | Over 1 mile |
| Warehouse | Warehouse | East 8 th Ave at Napa Road | Sonoma County | 80,000 square feet of buildings | Over 1 mile |
| Self-storage facility | Self-storage buildings | Hwy 121 east of Hwy 116 intersection | Sonoma County | 85,000 square feet of buildings, 480 units | Over 1 mile |

**Table 18-I
List of Reasonably Foreseeable Future Projects**

| APN / Project Name | Type of Project | Location | Source | Other Information | Distance |
|--|--|---|---|------------------------------------|-----------------|
| Adobe Creek Vineyard Tasting Room/Hospitality Center | Winery Tasting Room/Hospitality Center | North of Adobe Road and east of Frates Road | Sonoma County Peggy Phelan, Cline Vineyards | Early planning stage | 1/2 mile |
| O'Donnell | Multi-Family Residential | Sonoma Highway | City of Sonoma | 14 units | Over 1 mile |
| Norrborn | Multi-Family Residential | 590 West Napa Street | City of Sonoma | 23 units | Over 1 mile |
| Peterson | Multi-Family Residential | 254 First Street East | City of Sonoma | 39 units | Over 1 mile |
| Cheese Factory addition | Commercial | 2 West Spain Street | City of Sonoma | 8,480 sq. ft. | Over 1 mile |
| Chiapallone Fourplex, 2 | Multi-Family Residential | 1141-1143 Broadway | City of Sonoma | 4 units | 1/4 to 1 mile |
| Burbank Housing | Multi-Family Residential | 404 Napa Road | City of Sonoma | 34 units | 1/4 to 1 mile |
| Montini/O'Brien | Single Family Residential | Fifth Street West | City of Sonoma | 26 units | 1/4 to 1 mile |
| Ledson/Merlo | Multi-Family Residential | 165-179 West MacArthur St. | City of Sonoma | 30 units | 1/4 to 1 mile |
| Detert | Multi-Family Residential/Hotel | 165 East Spain Street | City of Sonoma | 10 units/34 units | Over 1 mile |
| Ryder/Starr | Single Family Residential | Fifth Street East | City of Sonoma | 20 units | 1/4 to 1 mile |
| McKenna Mixed Use | Multi-Family Res./Commercial | 1254 Broadway | City of Sonoma | 10 units/4,400 sq. ft. | 1,000 feet |
| McTaggart/Pinnacle | Single Family Residential | 432 East Napa Street | City of Sonoma | 13 units | 1/4 to 1 mile |
| Sanders Mixed Use | Multi-Family Res./Commercial | 19957 Broadway | City of Sonoma | 6 units/1,760 sq. ft. | 1/4 to 1 mile |
| Conforti Mixed Use | Multi-Family Res./Commercial | 966 Broadway | City of Sonoma | 8 units/4,800 sq. ft. | 1/4 to 1 mile |
| Heritage Court II | Single/Multi-Family Residential | 865 First Street West | City of Sonoma | 1 S.F./4 M.F. | 1/4 to 1 mile |
| Carneros Parks Lofts | Live-work units | 649 First Street West | City of Sonoma | 30 units | 1/4 to 1 mile |
| Chiapallone Fourplex, I | Multi-Family Residential | 1141-1143 Broadway | City of Sonoma | 4 units (under construction) | 1/4 to 1 mile |
| Giannis Mixed Use | Multi-Family Residential | 19315 Sonoma Highway | City of Sonoma | 8 units / 4,020 sq. ft. commercial | Over 1 mile |

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| APN / Project Name | Type of Project | Location | Source | Other Information | Distance |
|------------------------------|--|---------------------------|----------------|---|-----------------|
| Pipgras Alzheimer's Facility | Cong. Care Units | 91 Napa Road | City of Sonoma | 87 units (under construction) | 840 feet |
| Titrus Subdivision | Single- and Multi-Family Residential, Second Units | 865 E. Napa Street | City of Sonoma | 21 single-family units; 3 multi-family units, 2 second units (under construction) | Over 1 mile |
| Mehew Mixed Use | Single Family Residential, Second Units | 720 Broadway | City of Sonoma | 1 single-family unit, 1 second unit; 1,350 sq ft. commercial (under construction) | 1/4 to 1 mile |
| Fichtenberg / Wood PUD | Multi-Family Residential | 333 West MacArthur | City of Sonoma | 13 units (under construction) | 1/4 to 1 mile |
| Carneros Village | Multi-Family Residential | 623 First Street West | City of Sonoma | 14 units; 4,200 sq ft. comm. (under construction) | 1/4 to 1 mile |
| Eastside Estates III | Single- and Multi-Family Residential, Second Units | 20305 Fifth Street East | City of Sonoma | 54 single-family; 9 multi-family; 3 second units (under construction) | 1/4 to 1 mile |
| Weiler B&B | Hotel Units | 156, 168 East Napa Street | City of Sonoma | 6 units; 1,900 sq. ft. comm.. (under construction) | Over 1 mile |
| Wagner Office Bldg | Building | 19310 Sonoma Highway | City of Sonoma | 18,000 sq. ft. comm.. (under construction) | Over 1 mile |
| Toscano / Cummings PUD | Multi-Family Residential | 1113-1127 Broadway | City of Sonoma | 8 units (under construction) | 1/4 to 1 mile |

**Table 18-I
List of Reasonably Foreseeable Future Projects**

| APN / Project Name | Type of Project | Location | Source | Other Information | Distance |
|--|----------------------------|---|----------------|-----------------------------|-----------------|
| Plaza Landscaping Plan Implementation | Park Project | No. 1 Plaza (between First St. East, First St. West, Napa St. and Spain St. | City of Sonoma | Approved in CIP for 2004/05 | Over 1 mile |
| Plaza Duck Pond / Fish Pond Improvement | Park Project | No. 1 Plaza (between First St. East, First St. West, Napa St. and Spain St. | City of Sonoma | Approved in CIP for 2004/05 | Over 1 mile |
| Retrofit Drain Inlets with Storm Water Fossil Fuel Filters | Street Project | Throughout City | City of Sonoma | Approved in CIP for 2004/05 | Variable |
| First Street W – MacArthur to Newcomb | Road Resurfacing Project | First Street West | City of Sonoma | Approved in CIP for 2004/05 | ¼ to 1 mile |
| Sidewalk Repair / Curb Ramps | Street Improvement Project | Throughout City | City of Sonoma | Approved in CIP for 2004/05 | Variable |
| First West Newcomb to MacArthur | Road Resurfacing Project | First Street West | City of Sonoma | Approved in CIP for 2004/05 | Over 1 mile |
| First St W Spain Street to Bike Path | Road Resurfacing Project | First Street | City of Sonoma | Approved in CIP for 2004/05 | Over 1 mile |
| Church St. Third St. W. to Fourth Street | Road Resurfacing Project | Church Street | City of Sonoma | Approved in CIP for 2004/05 | Over 1 mile |
| Studley St. Fifth St. W to Seventh St. W | Road Resurfacing Project | Studley Street | City of Sonoma | Approved in CIP for 2004/05 | ¼ to 1 mile |
| Church St Third W to Fifth W Water Main | Water Improvement Project | Church St (b/t Third W and Fifth W) | City of Sonoma | Proposed in CIP for 2005/06 | Over 1 mile |
| Plumb Tree Court Service Lines | Water Improvement Project | Plumb Tree Court | City of Sonoma | Proposed in CIP for 2005/06 | Over 1 mile |
| Cordilleras Drive Service Lines | Water Improvement Project | Cordilleras Drive | City of Sonoma | Proposed in CIP for 2005/06 | Over 1 mile |
| Evans Ave. Berryessa Dr. La Quinta Ln Service Lines | Water Improvement Project | Evans Street, Berryessa Drive, La Quinta Ln. | City of Sonoma | Proposed in CIP for 2005/06 | ¼ to 1 mile |

| Table 18-I List of Reasonably Foreseeable Future Projects | | | | | | |
|--|--|--|---|---|-------------|--|
| APN / Project Name | Type of Project | Location | Source | Other Information | Distance | |
| Easton Dr., Ray Ct, Davilla Ct Service Lines | Water Improvement Project | Easton Dr., Ray Ct., Davilla Ct. | City of Sonoma | Proposed in CIP for 2005/06 | ¼ to 1 mile | |
| Brockman, Denmark Service Lines | Water Improvment Project | Brockman, Denmark | City of Sonoma | Proposed in CIP for 2005/06 | ¼ to 1 mile | |
| Easton Dr., Ray Ct, Davila Ct. | Resurfacing Project | Easton Dr., Ray Ct., Davilla Ct. | City of Sonoma | Proposed in CIP for 2005/06 | ¼ to 1 mile | |
| Malet St, First St W to Holden Subdivision | Resurfacing Project | Malet St., First St W. | City of Sonoma | Proposed in CIP for 2005/06 | ¼ to 1 mile | |
| Moore Subdivision | | 730 Napa Road | City of Sonoma | | Over 1 mile | |
| Litchfield Second Unit | | 360 Fifth Street West | City of Sonoma | | Over 1 mile | |
| Curusis Subdivision | | 20095 Fifth Street West | City of Sonoma | | ¼ to 1 mile | |
| Strindberg PUD | | 184 Leveroni Road | City of Sonoma | | On the line | |
| Recycled Water Pipeline Phase I Project No. 9995 | < 4 mile (~20,000 foot) pipeline (20-inch diameter) | From 4400 Lakeville Hwy to Rooster Run Golf Course (2301 E Washington St, Petaluma). | City of Petaluma Water Resources and Conservation Dept. | Just completed | Over 1 mile | |
| 2004 Oxidation Pond Dike Repair Project No. C500405 | Repair eroded dike and embankment to existing oxidation pond | 4400 Lakeville Hwy | City of Petaluma Water Resources and Conservation Dept. | Just completed | Over 1 mile | |
| Napa Road HES | Widen and reconstruction of roadway | Napa Road | Sonoma County Public Works Dept. | Waiting for Notice to Proceed, likely completed within next 3 years | Over 1 mile | |
| Napa Road at Eighth St. East Phase II Stormdrain | Constructing stormdrain facilities | Napa Road @ 8 th St. | Sonoma County Public Works Dept. | Waiting for Notice to Proceed, likely completed within next 3 years | Over 1 mile | |

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List of Reasonably Foreseeable Future Projects**

| APN / Project Name | Type of Project | Location | Source | Other Information | Distance |
|---|-------------------------|---|---------------|--|-------------------------|
| Highway 12 Curb Correction / Bridge Replacement | Highway improvements | Sonoma County | Caltrans | Anticipated in 2007 | Within ¼ mile in places |
| Highway 12 widening | Road widening | Highway 12 south (and possibly north) of Leveroni / Napa Road | Caltrans | This project is not listed on Caltrans' current projects website, but PG&E planners have heard that this may happen in the future. | Within ¼ mile in places |
| Fulton Capacitor Bank | Install capacitor banks | Inside Fulton Substation | PG&E | To provide reactive support to the area. | Over 1 mile |
| Pueblo Voltage Support | Install STATCOM device | Inside Pueblo Substation | PG&E | To prevent voltage drops. | Over 1 mile |
| Fulton 230 kV Transmission Line | 230 kV line | From Lakeville Substation to Fulton Substation | PG&E | Reconfiguring existing lines (no new lines). | Variable |

Sources: pers. comm. with David Goodison, City of Sonoma Planner January 9, 2003 to May 13, 2004; pers. comm. with Steve Padovan, Sonoma County Planner, August 24, 2004, pers., comm., with Scott Hunsperger, Sonoma County Planner September 2004; pers. comm. with Carole Cooper, LAFCO Planner May 17, 2004; and pers. comm. with Marco Rios, PG&E Transmission Planner May 2004; pers. comm. with Cordel Stillman, Sonoma County Water Agency, August 18, 2004; pers. comm. with Fleming Nguyen, City of Petaluma Department of Water Resources and Conservation August 24, 2004; pers. comm. with Steve Castaldo, City of Petaluma Public Facilities and Services Department, August 24, 2004; pers. comm. with Al Bandur, City of Sonoma Public Works Department August 23, 2004.

18.3.3 Cultural Resources

The project will not contribute to significant cumulative impacts on cultural resources in the area. Impacts of the proposed project on known cultural resources will be less than significant. Impacts on unknown cultural resources (sites or artifacts that could be discovered during construction) will be mitigated as needed. Thus the project will not contribute to significant cumulative impacts on cultural resources in the area.

18.3.4 Energy and Utilities

Like PG&E, most other energy and utility providers plan infrastructure upgrades incrementally to accommodate planned growth in their service areas, based on adopted city/county general plans. The proposed project will accommodate planned growth, but will not itself induce growth. Thus the project will not contribute to significant cumulative impacts on energy and utilities in the area.

18.3.5 Geology

Project engineering, design and mitigation measures are available to address site-specific geologic conditions. Thus the project will not contribute to significant cumulative impacts related to geology, soils or seismicity in the area.

18.3.6 Hydrology and Water Quality

There is not likely to be any significant cumulative change in hydrology and water quality from the incremental impact of the proposed project when added to existing or future projects.

18.3.7 Land Use and Agriculture

The amount of land that would be permanently affected by the proposed project is very small and it will replace a transmission line in an existing utility corridor, therefore a less than significant land use impact would result. Furthermore, the proposed project would not directly induce growth or foster the conversion of agricultural land to urban development. City of Sonoma and Sonoma County general plans have policies and land use elements that emphasize preservation of open space and agricultural lands in the area. Thus the project will not contribute to significant cumulative impacts related to land use or agriculture in the area.

18.3.8 Noise

Noise impacts from construction will be temporary and can be mitigated to a less than significant level. Once constructed, the project will not significantly increase ambient noise levels in the project area, and thus will not contribute to significant cumulative noise impacts in the study area.

18.3.9 Public Health and Safety

There is not likely to be any significant cumulative change in the public health and safety from the incremental impact of the proposed project when added to existing or future projects.

18.3.10 Transportation and Traffic

Transportation and traffic impacts during project construction (e.g., traffic control, temporary lane closures) will be temporary and less than significant. The project will not contribute to any long-term significant cumulative transportation or traffic impacts in the study area.

18.3.11 Visual Resources

This section discusses the proposed project and related projects to determine if, when combined, they could create cumulative visual impacts. PG&E's other Fulton Bank Capacitor and Pueblo STATCOM device installation projects are completely within the existing substations, and they would not significantly affect the visual condition of the project areas. The Fulton 230 kV Transmission Line project is over 10 miles away (north of Santa Rosa and extending up to the Geysers). It is expected to be similar to the proposed project in terms of visual change to the environment, as it too will use an existing utility corridor.

The County of Sonoma has received a permit application for a proposed 40-foot cellular telecommunications tower on the southeast corner of the Leveroni and Arnold Road intersection (APN 142032005, 20600 Leveroni Road). AT&T is proposing to make the tower look like an agricultural windmill because Arnold Road is a county scenic corridor (pers. comm. Yolanda Solano, Sonoma County Planner, November 3, 2004). Cumulative visual impacts from the two projects will be less than significant as: 1) PG&E will be replacing the existing transmission line that crosses the north side of this intersection (existing poles near this intersection average 64 feet tall and new poles will average 75 feet tall), 2) the telecommunications tower is proposed to be camouflaged as a windmill, and 3) both projects will be located in an existing utility corridor, which follows the County's goals of co-locating utilities to reduce visual impacts.

In addition, the cumulative visual impact from these two facilities on Arnold Road would be experienced for a very short duration, mostly by motorists traveling through the intersection. The projects would not significantly change the existing visual character of the area, as there are already public utilities (the transmission line, intersection lights, street lights) at the intersection (see Photo 17 in Chapter 15 Visual Resources). The transmission line and telecommunications tower would not block out views of the surrounding hillsides and vineyards, which are the predominant visual features in the landscape. For all of these reasons, the cumulative visual impact on Arnold Road will be less than significant and no mitigation is required.

Most of the other projects listed in Table 18-1 are located near other existing urban developments and/or are subject to environmental, zoning, and design review requirements that emphasize compatibility with open space and scenic preservation policies contained in City of Sonoma and County of Sonoma general plans. Thus, the project will not contribute to significant cumulative impacts on visual resources in the study area.

18.3.12 Corona and Induced Current Effects

As the project will replace an existing transmission line, corona and induced current effects are expected to be similar. Thus, the project is not expected to contribute to significant cumulative effects related to corona and induced current in the study area.

18.3.13 Growth Inducing Impacts

The Lakeville-Sonoma 115 kV Transmission Line project is needed to solve low voltage and reliability problems that currently exist in the transmission system and could result in electrical outages in the cities of Sonoma and Napa and some surrounding county lands. It will also provide some additional capacity at the Sonoma Substation. This additional capacity will accommodate planned incremental growth in these areas, which is regulated by the City of Sonoma and County of Sonoma. In planning transmission system upgrades, PG&E responds to electrical demands in accordance to the rate of development planned and approved by local land use jurisdictions. However, growth in the area is carefully planned and regulated by city and county general plans, which contain land use policies to protect the region's vineyards, open spaces and agricultural traditions and to control urban development.

The project is designed to meet immediate and projected electrical power needs in the Napa-Sonoma service area based on current and projected future demand. Like other utilities and public service providers, PG&E plans and upgrades electrical facilities incrementally based on growth projections provided by local government agencies. Local planning policies and zoning regulations have the biggest influence in controlling the pace and ultimate amount of growth in this area.

Electricity is not a key factor in land use planning in this area and is not the main obstacle to growth. The availability of electrical capacity by itself does not normally ensure or encourage growth within a particular area. Other factors such as economic conditions, land availability, population trends, and local planning policies have more of an effect on growth than the availability of services. The proposed project would accommodate planned growth, but would not by itself be growth inducing. Therefore, the growth-inducing impact of the proposed substation is less than significant and the project is not anticipated to contribute to significant cumulative growth inducing impacts in the area.

18.4 CONCLUSION

There is not likely to be any significant change in the environment resulting from the incremental impact of the proposed project when added to other existing or reasonably foreseeable future projects in the study area.

18.5 REFERENCES CITED

Caltrans. 2004. Capital Improvements Projects webpage. www.dot.ca.gov/dist4/projects.htm.
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City of Petaluma Department of Water Resources and Conservation website.
www.ci.petaluma.ca.us/wrcd Date visited August 20, 2004.

City of Petaluma Public Facilities and Services Department website. www.ci.petaluma.ca.us/pfss.
Date visited August 20, 2004

Sonoma County Department of Public Works website
www.sonomacountypublicworks.com/projects/index.html. Date visited August 18, 2004.

Personal communications (pers. comm.) with:

Al Bandur, City of Sonoma Public Works Department August 23, 2004, and Suet Chau, EDAW.

Steve Castaldo, Project Manager, City of Petaluma Public Facilities and Services Department, August 24, 2004, and Suet Chau, EDAW.

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Marco Rios, PG&E Transmission Planner May 2004 and Joshua Teigiser, EDAW

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