



**TRV Propulsion System Integrator DBE Goal Recommendation**

11 April 2025

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FROM: Matt Miller, PE, and Susan FitzGerald  
JOB/DOC. NO. 24145.03, Rev. -

**References**

1. 49 CFR 26.45, “How Do Recipients Set Overall Goals?”
2. Glosten, Document No. 24145.01, *TRV DBE Project Goal Recommendation*, Rev. -, 31 January 2025.
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4. BBC Research & Consulting, *2022 Caltrans FTA Disparity Study*, California Department of Transportation, Final Report, 10 November 2022.: <https://dot.ca.gov/programs/civil-rights/disparity-study#accordion-fta-disparity-study8FFB3C63>.
5. Griffin & Strong, P.C., *Georgia Department of Transportation Disparity Study*, Executive Summary, August 2016.
6. Griffin & Strong, P.C., *North Carolina Department of Transportation Disparity Study Report*, August 2021.
7. Federal Transit Administration (FTA), ““DBE Goal Setting’ Video Transcript,” Civil Rights, <https://www.transit.dot.gov/regulations-and-guidance/civil-rights-ada/dbe-goal-setting-videotranscript>, accessed 2 October 2024.
8. Alaska Department of Transportation & Public Facilities (AK DOT&PF) Civil Rights Office, *Disadvantaged Business Enterprise Goal Methodology*, Federal Fiscal Year 2025-2027, 1 September 2024.

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## Introduction

The State of Alaska (State) Alaska Marine Highway System (AMHS), is planning to acquire a new ferry, partially funded by the Federal Transit Administration (FTA). The new ferry, referred to as the Tustumena Replacement Vessel (TRV) is designed with a hybrid diesel-electric propulsion system and the following characteristics:

Vessel Type:.....Roll-On/Roll-Off Passenger Vessel (ROPAX)  
Service Type: .....Domestic/International  
Service Route Type:.....Oceans (No more than 50 nm from shore)  
Range/Endurance: .....4,000 nm (20 days)  
Hull & Superstructure Material: .....Steel  
Length Overall: .....330'-0"  
Length at Waterline: .....329'-0"  
Maximum Beam: .....74'-10"  
Draft: .....15'-10"  
Air Draft:.....90'-0"  
Lightship Displacement: .....4,188 LT

Following the requirements outlined in 49 CFR 26.45 (Reference 1), a project DBE goal of 2.46% was proposed for the shipyard construction portion of the TRV project (Reference 2).

AMHS has a CMGC (construction manager general contractor) contract with Siemens Energy to serve as the Propulsion System Integrator for the TRV, and the FTA requires an additional DBE goal for their scope of work, separate from the ferry construction contractor's DBE goal. This memo follows the requirements outlined in 49 CFR 26.45 for establishing a DBE project goal for the Siemens Energy scope of work as Propulsion System Integrator. The exact amount of FTA funds allocated for the Propulsion System Integrator is not yet known, but is estimated at \$43,000,000.

## Approach

There are eight requirements that must be met to establish the appropriate percentage of DBE participation. These are:

1. Develop a detailed list of contracting and subcontracting opportunities.
2. Identify the geographic market area.
3. Develop the Step One base figure.
4. Define the sources used to establish the goal.
5. Perform Step Two adjustment, if appropriate.
6. Include a race-conscious / race-neutral breakdown.
7. Provide for meaningful consultation.
8. Provide proof of publication.

## Requirement 1: Develop a Detailed List of Contracting and Subcontracting Opportunities

Siemens Energy is the prime contractor for the Propulsion System Integrator scope of work. The assessment of opportunities for DBE participation presented here considers all available subcontracting opportunities, including opportunities for constructing components and subcomponents, for the TRV’s hybrid diesel-electric propulsion system.

### Relevant NAICS Codes

The TRV’s propulsion plant will be composed of the following major components:

1. Main and emergency diesel generator sets.
2. Main thrusters (propulsors), motors, and drives.
3. Maneuvering (bow) thrusters, motors, and drives.
4. Propulsion electrical distribution systems.
5. Ship service and emergency switchboards.
6. Propulsion control, machinery monitoring, and power management equipment.
7. Battery storage and management systems.

A detailed list of contracting and subcontracting opportunities for DBE firms was created using the appropriate North American Industry Classification System (NAICS) codes. The 17 selected NAICS codes are listed along with their relevant service categories in Table 1. These codes include a subset of the codes used in establishing the proposed DBE project goal for the shipyard scope, plus codes applicable to the manufacturing of specific components to be provided by US suppliers.

**Table 1** Seventeen NAICS codes relevant to the Siemens scope

NAICS Code	2022 NAICS Definition	Relevant Service Categories
331420	Copper Rolling, Drawing, Extruding, and Alloying	Shipboard Cable
331529	Other Nonferrous Metal Foundries (except Die-Casting)	Ship Propellers
332510	Hardware Manufacturing	Metal marine hardware manufacturing
332996	Fabricated Pipe and Pipe Fitting Manufacturing	Fabricated pipe, pipe bends, pipe fittings, and manifolds made from purchased pipe (including ladders and railings)
333618	Other Engine Equipment Manufacturing	Marine Engines Manufacturing
334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables	Boiler controls, industrial, power, and marine-type, manufacturing
335311	Power, Distribution, and Specialty Transformer Manufacturing	Power transformers, electric, manufacturing
335312	Motor and Generator Manufacturing	Generator sets, prime mover (except turbine generator sets), manufacturing
335313	Switchgear and Switchboard Apparatus Manufacturing	Electrical system components
335314	Relay and Industrial Control Manufacturing	Marine and navy auxiliary controls manufacturing

NAICS Code	2022 NAICS Definition	Relevant Service Categories
335910	Battery Manufacturing	Marine storage batteries and lithium batteries manufacturing
335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing	Uninterruptible power supplies (UPS) manufacturing
336320	Motor Vehicle Electrical and Electronic Equipment Manufacturing	Boat and ship lighting fixtures manufacturing
423860	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers	Marine engines and turbines wholesalers and ships merchant wholesalers
532411	Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing	Towing, small boats, mooring lines
541330	Engineering Services	Marine engineering and maritime technology services
561320	Temporary Help Services	Labor Contractors

### Requirement 2: Identify the Geographic Market Area

The geographic market area defined for the Propulsion System Integrator scope of work is based on the likely US manufacturing locations of TRV’s propulsion system component suppliers. This includes California, Georgia, Louisiana, North Carolina, South Carolina, and Texas. DBE firms registered in these six states were included in the analysis.

### Requirement 3: Develop the Step One Base Figure

#### Relative DBE Availability

Developing the Step One base figure involves calculating the relative availability of DBEs for each NAICS code. The relative availability of DBE firms was derived by dividing the number of ready, willing, and able DBEs in a particular NAICS code by the number of all firms (DBEs and non-DBEs) in that NAICS code.

$$\text{Relative availability for each NAICS code} = \frac{\text{Ready, willing, and able DBEs}}{\text{All ready, willing, and able firms (including DBEs and non-DBEs)}}$$

The number of DBE contractors in each of the six states of interest was obtained from the states’ certified DBE databases. The number of all available contractors in each of the six states of interest was obtained from the US Census Bureau’s County Business Pattern (CBP) Database (Reference 3) per 49 CFR 26.45(c)(1). The CBP data is anonymous. It is assumed that the CBP Database includes DBEs and non-DBEs.

The resulting Step One base figures for each of the 32 NAICS codes of interest for each state are presented in Appendix A.

A summary of total values and the overall base figure are presented in Table 2.

**Table 2 State and overall totals for relative availability of DBE firms**

State	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)
CA	14,113	789	5.59%
GA	3,623	63	1.74%
LA	1,708	184	10.77%
NC	3,314	252	7.60%
SC	1,684	128	7.60%
TX	9,851	970	9.85%
<b>Overall Totals</b>	<b>34,293</b>	<b>2,386</b>	<b>6.96%</b>

The relative availability of DBE firms in the market area is 6.96% but varies by state; the median value across the states is 7.60%.

### Weighting

Weighting is not required by the CFR but can improve the accuracy of the Step One base figure (Reference 1). Table 3 presents the weighted base figures for the vessel construction work scopes represented by the 17 industry codes. Weighting represents the approximate percentage of FTA funding anticipated to be spent on work performed under each NAICS code, reflecting how DBE utilization will be measured during the project, i.e., based on actual dollars paid to DBEs. DBE availability values provided in Table 3 represent the total number of DBE firms divided by the total number of all firms (summed across all six states) for each industry code (see Appendix A).

**Table 3 Weighted base figure**

NAICS Code	NAICS Description and Associated Contracts	Distribution of FTA Funding	Percent of FTA Funding	DBE Availability	Weighted Base Figure
331420	Copper Rolling, Drawing, Extruding, and Alloying	\$1,720,000	4.00%	0.00%	0.00%
331529	Other Nonferrous Metal Foundries (except Die-Casting)	\$1,505,000	3.50%	0.00%	0.00%
332510	Hardware Manufacturing	\$645,000	1.50%	0.00%	0.00%
332996	Fabricated Pipe and Pipe Fitting Manufacturing	\$1,505,000	3.50%	10.55%	0.37%
333618	Other Engine Equipment Manufacturing	\$860,000	2.00%	0.00%	0.00%
334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables	\$645,000	1.50%	4.90%	0.07%
335311	Power, Distribution, and Specialty Transformer Manufacturing	\$2,365,000	5.50%	3.39%	0.19%

NAICS Code	NAICS Description and Associated Contracts	Distribution of FTA Funding	Percent of FTA Funding	DBE Availability	Weighted Base Figure
335312	Motor and Generator Manufacturing	\$18,490,000	43.00%	0.82%	0.35%
335313	Switchgear and Switchboard Apparatus Manufacturing	\$2,580,000	6.00%	8.87%	0.53%
335314	Relay and Industrial Control Manufacturing	\$860,000	2.00%	6.13%	0.12%
335910	Battery Manufacturing	\$3,010,000	7.00%	0.00%	0.00%
335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing	\$860,000	2.00%	10.17%	0.20%
336320	Motor Vehicle Electrical and Electronic Equipment Manufacturing	\$2,150,000	5.00%	7.04%	0.35%
423860	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers	\$1,290,000	3.00%	9.21%	0.28%
532411	Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing	\$645,000	1.50%	10.47%	0.16%
541330	Engineering Services	\$2,580,000	6.00%	8.61%	0.52%
561320	Temporary Help Services	\$1,290,000	3.00%	4.05%	0.12%
<b>Estimated Total Federal Funds</b>		<b>\$43,000,000</b>	<b>100%</b>		<b>3.26%</b>

Note that the DBE work scopes will be subcontracted work. As shown, the weighted base figure is 3.26%. This represents approximately \$1.4M of FTA funding.

TRV construction is expected to begin in federal fiscal year 2026 and extend into 2028. The anticipated level of DBE participation in the Propulsion System Integrator’s scope during each federal fiscal year covered by the project goal is presented in Table 4.

**Table 4 Anticipated DBE participation over TRV construction period**

Federal Fiscal Year	DBE Participation
2026	0.89%
2027	1.04%
2028	1.33%
<b>Total</b>	<b>3.26%</b>

#### Requirement 4: Sources Used to Establish the DBE Goal

There is no single database that contains the information required to establish the project DBE goal. Information was gathered from seven different databases as shown in Table 5 and in the References section above. The source data are provided separately as Appendix B (zipfile) to this memo.

**Table 5 Data sources**

Source Name	Website	Note	Appendix B Filename
US Census Bureau's CBP Database	<a href="https://www.census.gov/data/datasets/">https://www.census.gov/data/datasets/</a>	2022 dataset (released 27 June 2024) Accessed 25 Sept. 2024	cbp22st.zip
California Unified Certification Program (UCP)	<a href="https://californiaucp.dbe.system.com/">https://californiaucp.dbe.system.com/</a>	Accessed 7 March 2025	CA UCP Entire Directory_2025-03-07.xls
State of Georgia UCP Directory	<a href="https://gdotbiext.dot.ga.gov/ext-bi/saw.dll?Dashboard">https://gdotbiext.dot.ga.gov/ext-bi/saw.dll?Dashboard</a>	Accessed 7 March 2025	GA_UCP Directory ALL_2025-03-07.xlsx
Louisiana UCP Directory	<a href="http://www8.dotd.louisiana.gov/UCP/UCPSearch.aspx">http://www8.dotd.louisiana.gov/UCP/UCPSearch.aspx</a>	Accessed 7 March 2025	LA DBE List_2025-03-07.csv
North Carolina	<a href="https://www.ebs.nc.gov/VendorDirectory/default.html">https://www.ebs.nc.gov/VendorDirectory/default.html</a>	Accessed 14 March 2025	NC_VendorDirectoryDBE_2025-03-14.csv
South Carolina DOT DBE/ACDBE Certification Directory	<a href="http://dbwapps.scdot.org/dbesearch">http://dbwapps.scdot.org/dbesearch</a>	Accessed 14 March 2025	SC_UCP_DBE_Directory_2025-03-14.xlsx
Texas UCP	<a href="https://txdot.txdotcms.com/FrontEnd/searchcertifieddirectory.asp?TN=txdot">https://txdot.txdotcms.com/FrontEnd/searchcertifieddirectory.asp?TN=txdot</a>	Accessed 7 March 2025	TX_Entire Directory_2025-03-07.xls

#### Requirement 5: Step Two Adjustment

The regulations require consideration of all evidence available in a recipient's jurisdiction to determine whether an adjustment to the Step One base figure is necessary. This includes any data that would help to better measure the percentage of work that DBEs would be likely to obtain in the absence of discrimination (Reference 1).

Past DBE participation in other federally-funded Siemens Energy projects and available disparity studies were considered in determining appropriate adjustments to the base figure. No other types of evidence or data relevant to adjusting the base figure were found.

#### Past Participation

No information is available regarding DBE participation on past Siemens Energy federally-funded projects, so no further adjustment to the 3.26% value based on past participation was made.



## Disparity Studies

Recent studies examining disparities relating to DBE utilization within the project's market area have been conducted for:

- California Department of Transportation (CALTRANS; Reference 2<sup>1</sup>).
- Georgia Department of Transportation (GDOT; Reference 3<sup>2</sup>).
- Louisiana Department of Transportation & Development – none found.
- North Carolina Department of Transportation (NCDOT; Reference 4<sup>3</sup>).
- South Carolina – none found.
- Texas – 2019 disparity study not available online.

None of the studies reviewed provide information considered directly applicable to adjusting the DBE participation goal.

### **Requirement 6: Include a Race-Conscious / Race-Neutral Breakdown**

The regulations require statements of which portions of the overall goal will be met through race-neutral versus race-conscious measures (49 CFR 26.45). A “race-conscious” approach focuses specifically on assisting only DBEs. A “race-neutral” approach aims to assist all small businesses and allows all small businesses to compete with each other, including DBEs (Reference 7).

As part of its efforts to achieve its overall DBE program goal, Alaska DOT&PF has implemented several race-neutral initiatives designed to encourage the participation of DBE firms and other small businesses in FTA-assisted contracts and strengthen collaboration between FTA subrecipients and DBE firms. These initiatives include continuing outreach and training opportunities to expand knowledge and awareness of the DBE program; providing updates on resources, contracting opportunities, and best practices; and offering a range of supportive services intended to increase long-term capacity and competitiveness (Reference 8).

DBE participation shall be sought on a 100% race- and gender-neutral basis. The rationale for this includes:

- Alaska DOT&PF's ongoing efforts are helping to establish a level playing field and foster small business and DBE participation in its FTA-assisted contracts.
- An active outreach effort to small businesses will be contractually required in the bid solicitation sent to shipyards, which will encourage them to attain the DBE project goal.
- The meaningful consultation efforts (discussed below) will encourage prime bidders to include small businesses and DBEs without setting explicit requirements.

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<sup>1</sup> <https://dot.ca.gov/-/media/dot-media/programs/civil-rights/documents/disparity-study/2022-caltrans-fta-disparity-study-final.pdf>

<sup>2</sup> <https://www.mbda.gov/sites/default/files/2022-08/2016DisparityStudy.pdf>

<sup>3</sup> <https://www.ncdot.gov/about-us/board-offices/offices/civil-rights/Pages/unified-certification-program.aspx>



## Requirement 7: Provide for Meaningful Consultation

49 CFR 26.45(g)(1)(i) requires consultation and publication of this project goal. The regulations require that this consultation must include “a scheduled, direct, interactive exchange (e.g., a face-to-face meeting, video conference, or teleconference) with as many interested stakeholders as possible focused on obtaining information relevant to the goal setting process.”

Alaska DOT&PF will take a targeted approach to establishing, advertising, and soliciting input on this proposed DBE project goal, and will provide consultation and networking opportunities for Siemens Energy and potential subcontractors. In May 2025, Alaska DOT&PF will host a webinar, prepared and presented by Glostén, that will provide information on the TRV construction project, solicit comments on the proposed Propulsion System Integrator DBE goal, and provide opportunities for Siemens Energy and potential subcontractors to network in advance of the project. Webinar invitees will include:

- DBEs within the 17 selected NAICS codes in the market area.
- Siemens Energy representatives.
- State DOT Civil Rights representatives.

To reach a wider audience of potentially interested stakeholders, Glostén will advertise the upcoming webinar to the industry in e-newsletters for three of the largest trade organization publications for the passenger vessel industry, including “Marine Log,” “Maritime Today,” and “WorkBoat.” These trade publications are sent out to companies working in the marine industry for free and are widely distributed around the country.

We will also request that advertisement of the webinar be distributed by state DOTs and organizations such as the National Association of Minority Contractors and the Minority Business Development Agency.

A recording of the webinar will be posted on Alaska DOT&PF’s Civil Rights Office website for those who are not able to attend.

The following links will be made available to webinar participants to increase awareness of available resources that support DBEs and small businesses and to facilitate Siemens’s outreach:

- California Caltrans Civil Rights website (includes certification links):  
<https://dot.ca.gov/programs/civil-rights>
  - Caltrans DBE website: <https://dot.ca.gov/programs/civil-rights/dbe>
- Georgia certification website: <https://georgia.org/certification>
  - Georgia DBE website: <https://www.dot.ga.gov/GDOT/Pages/DBE.aspx>
- Louisiana Economic Development Smallbiz System directory:  
<https://smallbiz.louisianaeconomicdevelopment.com/Search/default.aspx>
  - Louisiana DBE website: <http://www8.dotd.la.gov/UCP/Home.aspx>
- North Carolina UCP: <https://www.ncdot.gov/about-us/board-offices/offices/civil-rights/Pages/unified-certification-program.aspx>
- South Carolina Minority & Small Business Affairs: <https://www.scdot.org/business/bus-development-overview.html>
  - South Carolina DBE Program: <https://www.scdot.org/business/bus-development-dbe-certification.html>

- Texas Disadvantaged and Small Business Enterprise Programs: <https://www.txdot.gov/business/disadvantaged-small-business-enterprise.html>
- Black American Chamber of Commerce: <https://blackamericanchamber.org/>
- Asian Pacific American Chamber of Commerce: <https://www.apacc.net/>
- Hispanic Chamber of Commerce: <https://www.usfcc.com>
- National Native American Chamber of Commerce: <http://www.nnacc.org/>

Following the webinar, Glosten will summarize comments received during the meeting and indicate whether these comments impacted the proposed goal.

#### **Requirement 8: Provide Proof of Publication**

Proof of publication of the webinar announcement as described above will be provided when available. Following publication of this draft memo and a 30-day comment period, Glosten will summarize comments received during the public meeting and indicate in a revised memo whether these comments impacted the proposed goal.

#### **Conclusions**

A race- and gender-neutral 3.26% DBE participation goal, representing approximately \$1.4M of FTA funding, is proposed for the TRV Propulsion System Integrator scope. DBE participation shall be sought on a 100% race-/gender-neutral basis.

331420 Copper Rolling, Drawing, Extruding, and Alloying				331529 Other Nonferrous Metal Foundries (except Die-Casting)			332510 Hardware Manufacturing			332996 Fabricated Pipe and Pipe Fitting Manufacturing			333618 Other Engine Equipment Manufacturing		
State	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)
CA <sup>C</sup>	13	0	0.00%	20	0	0.00%	67	0	0.00%	66	9	13.64%	23	0	0.00%
GA <sup>D</sup>	8	0	0.00%	3	0	0.00%	9	0	0.00%	13	4	30.77%	5	0	0.00%
LA <sup>E</sup>	0	0	N/A	0	0	N/A	3	0	0.00%	25	1	4.00%	5	0	0.00%
NC <sup>F</sup>	8	0	0.00%	4	0	0.00%	15	0	0.00%	21	2	9.52%	10	0	0.00%
SC <sup>G</sup>	6	0	0.00%	3	0	0.00%	5	0	0.00%	11	2	18.18%	8	0	0.00%
TX <sup>H</sup>	19	0	0.00%	6	0	0.00%	24	0	0.00%	120	9	7.50%	11	0	0.00%
<b>Totals</b>	<b>54</b>	<b>0</b>	<b>0.00%</b>	<b>36</b>	<b>0</b>	<b>0.00%</b>	<b>123</b>	<b>0</b>	<b>0.00%</b>	<b>256</b>	<b>27</b>	<b>10.55%</b>	<b>62</b>	<b>0</b>	<b>0.00%</b>

334513 Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables				335311 Power, Distribution, and Specialty Transformer Manufacturing			335312 Motor and Generator Manufacturing			335313 Switchgear and Switchboard Apparatus Manufacturing			335314 Relay and Industrial Control Manufacturing		
State	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)
CA <sup>C</sup>	107	3	2.80%	21	1	4.76%	47	0	0.00%	41	6	14.63%	65	4	6.15%
GA <sup>D</sup>	12	3	25.00%	9	0	0.00%	12	0	0.00%	15	3	20.00%	12	2	16.67%
LA <sup>E</sup>	10	0	0.00%	3	0	0.00%	4	0	0.00%	6	0	0.00%	8	0	0.00%
NC <sup>F</sup>	14	1	7.14%	6	0	0.00%	8	0	0.00%	7	0	0.00%	16	2	12.50%
SC <sup>G</sup>	6	1	16.67%	3	0	0.00%	12	0	0.00%	12	0	0.00%	6	0	0.00%
TX <sup>H</sup>	96	4	4.17%	17	1	5.88%	39	1	2.56%	43	2	4.65%	56	2	3.57%
<b>Totals</b>	<b>245</b>	<b>12</b>	<b>4.90%</b>	<b>59</b>	<b>2</b>	<b>3.39%</b>	<b>122</b>	<b>1</b>	<b>0.82%</b>	<b>124</b>	<b>11</b>	<b>8.87%</b>	<b>163</b>	<b>10</b>	<b>6.13%</b>

335910 Battery Manufacturing				335999 All Other Miscellaneous Electrical Equipment and Component Manufacturing			336320 Motor Vehicle Electrical and Electronic Equipment Manufacturing			423860 Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers			532411 Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing		
State	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)
CA <sup>C</sup>	38	0	0.00%	147	10	6.80%	67	4	5.97%	326	29	8.90%	75	14	18.67%
GA <sup>D</sup>	14	0	0.00%	6	4	66.67%	10	1	10.00%	69	1	1.45%	12	1	8.33%
LA <sup>E</sup>	0	0	N/A	3	1	33.33%	3	1	33.33%	50	6	12.00%	27	2	7.41%
NC <sup>F</sup>	0	0	N/A	17	2	11.76%	10	0	0.00%	56	6	10.71%	14	1	7.14%
SC <sup>G</sup>	4	0	0.00%	11	0	0.00%	13	1	7.69%	29	3	10.34%	5	1	20.00%
TX <sup>H</sup>	14	0	0.00%	52	7	13.46%	39	3	7.69%	230	25	10.87%	58	1	1.72%
<b>Totals</b>	<b>70</b>	<b>0</b>	<b>0.00%</b>	<b>236</b>	<b>24</b>	<b>10.17%</b>	<b>142</b>	<b>10</b>	<b>7.04%</b>	<b>760</b>	<b>70</b>	<b>9.21%</b>	<b>191</b>	<b>20</b>	<b>10.47%</b>

541330 Engineering Services				561320 Temporary Help Services		
State	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)
CA <sup>C</sup>	8886	567	6.38%	4104	142	3.46%
GA <sup>D</sup>	1846	28	1.52%	1568	16	1.02%
LA <sup>E</sup>	1098	121	11.02%	463	52	11.23%
NC <sup>F</sup>	1728	187	10.82%	1380	51	3.70%
SC <sup>G</sup>	918	94	10.24%	632	26	4.11%
TX <sup>H</sup>	5660	736	13.00%	3367	179	5.32%
<b>Totals</b>	<b>20136</b>	<b>1733</b>	<b>8.61%</b>	<b>11514</b>	<b>466</b>	<b>4.05%</b>

Appendix A: Step One base figures<sup>A, B</sup>

TOTALS			
State	All Available Firms	All Available DBE Firms	Relative Availability of DBE Firms (Base Figure)
CA <sup>C</sup>	14113	789	5.59%
GA <sup>D</sup>	3623	63	1.74%
LA <sup>E</sup>	1708	184	10.77%
NC <sup>F</sup>	3314	252	7.60%
SC <sup>G</sup>	1684	128	7.60%
TX <sup>H</sup>	9851	970	9.85%
<b>Totals</b>	<b>34293</b>	<b>2386</b>	<b>6.96%</b>

  

<b>Median</b>
<b>7.60%</b>

Table Notes:

- A. State DBE data are tallied here by company name. US Census CBP data are tallied (anonymously) per company establishment (e.g., office location), as provided by US CBP database. It is assumed that the DBE companies are included in the US Census CBP data.
  - B. Data were filtered in an attempt to remove duplicate records present in the source data to minimize double-counting.
  - C. The California DBE tally includes only companies with "DBE" designations; database entries with "ACDBE" (Airport Concessionaire Disadvantaged Business Enterprise), "ACDBE\*", and "DBE\*" designations were excluded. The asterisk indicates the firm is suspended from the DBE program (Lugo 2025).
  - D. The Georgia DBE tally includes only companies with "DBE" and "DBE/ACDBE" designations (DBE/ACDBE indicates both DBE and ACDBE certification [Opara-Amaechi 2025]); database entries with "ACDBE" and "Women Owned Business Enterprise (WBE)" designations were excluded.
  - E. All Louisiana DBE dataset entries are categorized as "MBE", "MWBE" (Minority Woman-owned Business Enterprise), "NONM" (Non-Minority), "WBE" (Woman-owned Business Enterprise), or "WWBE," (White Woman-owned Business Enterprise), i.e., each entry includes one of these designations. DBEs and ACDBEs are not identified explicitly in the data.
  - F. North Carolina UCP Directory entries all include the "DBE" designation, some also include additional designations.
  - G. South Carolina DBE tally includes excludes database entries with "ACDBE" indicated in their area of work.
  - H. The Texas DBE tally includes only companies with "DBE" designations; database entries with "ACDBE" and "SBE" (Small Business Enterprise) designations were excluded.
- Lugo, C. (Caltrans Office of Civil Rights), email to FitzGerald, S. (Glosten), RE: Information request: Certified Vendor Directory "Certification Type" definitions, 17 March 2025.
- Opara-Amaechi, V. (Georgia Department of Transportation), email to FitzGerald, S. (Glosten), RE: UCP Directory Question, 18 March 2025.