

DOCKETED

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|-------------------------|--------------------------------------|
| Docket Number: | 13-AFC-01 |
| Project Title: | Alamitos Energy Center |
| TN #: | 201620-36 |
| Document Title: | AEC AFC Appendix 2C Truck Trips Data |
| Description: | Previously TN# 201493-9 |
| Filer: | Tiffani Winter |
| Organization: | CH2M Hill |
| Submitter Role: | Applicant Consultant |
| Submission Date: | 2/3/2014 12:47:11 PM |
| Docketed Date: | 2/3/2014 |

Appendix 2C
Truck Trips

TABLE 2.3-9
Truck Trips for Demo of Unit 7 Peaker, Fuel Oil Tank and Northeast Warehouse

| Months | Months After HBEP Project Commencement | | | | | | | | | | | | | | | Total Trucks per Day per Month | Days per Month | Total Trucks | % | |
|----------------------------|--|-------|-------|-------|-------|-------|-------|-------|---|----|----|----|----|----|----|--------------------------------|----------------|--------------|-----|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | | | | |
| Truck Trips | | | | | | | | | | | | | | | | | | | | |
| Fill Material | | | | | | | | | | | | | | | | | | | | |
| Mechanical Equipment | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | 8 | 23 | 184 | 18% | |
| Electrical Equip. & Mtrls | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | | | | | | | 4 | 23 | 92 | 9% | |
| Piping, Supports, & Valves | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | | | | | | | | 2 | 23 | 46 | 5% | |
| Concrete and Rebar | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | | | | | | | 12 | 23 | 276 | 28% | |
| Steel/Architectural | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | | | | | | | 12 | 23 | 276 | 28% | |
| Consumables & Supplies | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | | | | | | | | 2 | 23 | 46 | 5% | |
| Contractor Mobilization | 0.5 | 0.5 | 0.5 | | | | | | | | | | | | | 2 | 23 | 34.5 | 3% | |
| Contractor Demobilization | | | | | | | 0.5 | 0.5 | | | | | | | | 1 | 23 | 23 | 2% | |
| Demo Equipment | 0.125 | 0.125 | 0.125 | 0.125 | 0.125 | 0.125 | 0.125 | 0.125 | | | | | | | | 1 | 23 | 23 | 2% | |
| | | | | | | | | | | | | | | | | | | | | |
| Trucks/Day/Month | 5.6 | 5.6 | 5.6 | 5.1 | 5.1 | 5.1 | 5.6 | 5.6 | | | | | | | | | | | | |
| Trucks/Month | 129.4 | 129.4 | 129.4 | 117.9 | 117.9 | 117.9 | 129.4 | 129.4 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | TOTAL TRUCK TRIPS | | 1,001 | | |

ALAMITOS ENERGY CENTER TRUCK TRIPS

| DEMOLITION UNIT 5 & 6 | Months After AEC Project Commencement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---------------------------------------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|------------|--------------|---------|-------|-----|-----|----|----|----|-----|-----|------|--------|--------|-------|--|
| | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | | | | | | |
| Truck Trips | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fill Material | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Mechanical Equipment | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Electrical Equip. & Mtrls | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| Piping, Supports, & Valves | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Concrete/ Rebar / Rubble | | | | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Steel/Architectural | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Consumables & Supplies | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Contractor Mobilization | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| Contractor Demobilization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Equipment | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Trucks/Day/Month | | 5 | 6 | 6 | 7 | 6.5 | 6.5 | 7.5 | 7.5 | 9.5 | 9.5 | 12.5 | 12.5 | 13.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 13.5 | 13.5 | 11.5 | 10.5 | 6 | | | | | | | | | | | | | | | | | | | | | |
| Trucks/Month | | 115 | 138 | 138 | 161 | 149.5 | 149.5 | 172.5 | 172.5 | 218.5 | 218.5 | 287.5 | 287.5 | 310.5 | 333.5 | 333.5 | 333.5 | 333.5 | 333.5 | 333.5 | 310.5 | 310.5 | 264.5 | 241.5 | 138 | | | | | | | | | | | | | | | | | | | | | |
| DEMOLITION UNIT 3 & 4 | Months After AEC Project Commencement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | | | | | | | | | | |
| Truck Trips | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fill Material | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Mechanical Equipment | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Electrical Equip. & Mtrls | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Piping, Supports, & Valves | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Concrete/ Rebar / Rubble | | | | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Steel/Architectural | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Consumables & Supplies | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Contractor Mobilization | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contractor Demobilization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Equipment | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Trucks/Day/Month | | 5 | 6 | 6 | 7 | 6.5 | 6.5 | 7.5 | 7.5 | 9.5 | 9.5 | 12.5 | 12.5 | 13.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 13.5 | 13.5 | 11.5 | 10.5 | 6 | | | | | | | | | | | | | | | | | | | | | | |
| Trucks/Month | | 115 | 138 | 138 | 161 | 149.5 | 149.5 | 172.5 | 172.5 | 218.5 | 218.5 | 287.5 | 287.5 | 310.5 | 333.5 | 333.5 | 333.5 | 333.5 | 333.5 | 310.5 | 310.5 | 264.5 | 241.5 | 138 | | | | | | | | | | | | | | | | | | | | | | |
| DEMOLITION UNIT 1 & 2 | Months After AEC Project Commencement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Trucks Per Day per Month | DAYS / MO. | Total Trucks | % | | | | | | | | | | | | | |
| | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | | | | | | | | | | | |
| Truck Trips | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fill Material | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | 3 | | | | | | | | | | | 36 | 23 | 828 | 4.77% | | | |
| Mechanical Equipment | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | | | | | | | | 192 | 23 | 4416 | 25.45% | | | |
| Electrical Equip. & Mtrls | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | | | | | | | | | 153 | 23 | 3519 | 20.28% | | | |
| Piping, Supports, & Valves | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 23 | 0 | 0.00% | | |
| Concrete/ Rebar / Rubble | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | | | | | | | | | | | 129 | 23 | 2967 | 17.10% | | |
| Steel/Architectural | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | | | | | | | | | | | 123 | 23 | 2829 | 16.30% | | |
| Consumables & Supplies | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | | | | | | | | | | 69 | 23 | 1587 | 9.15% | | |
| Contractor Mobilization | | | | | | | | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | 23 | 276 | 1.59% | |
| Contractor Demobilization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | 23 | 276 | 1.59% | |
| Construction Equipment | | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | | | | | | | | | 29 | 23 | 655.5 | 3.78% | | |
| Trucks/Day/Month | | | | | | | | 5 | 6 | 6 | 7 | 6.5 | 6.5 | 7.5 | 7.5 | 9.5 | 9.5 | 12.5 | 12.5 | 13.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 13.5 | 13.5 | 11.5 | 10.5 | 6 | | | | | | | | | | | | | | | | |
| Trucks/Month | | | | | | | | 115 | 138 | 138 | 161 | 149.5 | 149.5 | 172.5 | 172.5 | 218.5 | 218.5 | 287.5 | 287.5 | 310.5 | 333.5 | 333.5 | 333.5 | 333.5 | 333.5 | 310.5 | 310.5 | 264.5 | 241.5 | 138 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 17353.5 | Total | | | | | | | | | | | | |

TABLE 2.3-7

ALAMITOS ENERGY CENTER MANPOWER REQUIREMENTS

12/17/2013

| CONSTRUCTION OFFSITE SEWER LINE FROM AEC TO PCH | 2016 | | | | | | | | | | | | MAN MO. | DAYS / MO. | MAN DAYS | HRS / DAY | MAN HRS |
|---|-------|-----|-----|-----|-----|-----|-----|-----|-----------|-----------|-----------|------------|-------------|---------------|--------------|--------------|-------------|
| | CRAFT | JAN | FEB | MAR | APR | MAY | JUN | JLY | AUG | SEP | OCT | NOV | | | | | |
| Pipe Fitters | | | | | | | | | 2 | 2 | 2 | 1 | 7 | 23 | 161 | 10 | 1610 |
| Laborers | | | | | | | | | 2 | 2 | 2 | 1 | 7 | 23 | 161 | 10 | 1610 |
| Labor Foreman | | | | | | | | | 1 | 1 | 1 | 0.5 | 3.5 | 23 | 80.5 | 10 | 805 |
| Operating Engineers | | | | | | | | | 2 | 2 | 2 | 1 | 7 | 23 | 161 | 10 | 1610 |
| Welder (Plumber) | | | | | | | | | 1 | 1 | 1 | 0.5 | 3.5 | 23 | 80.5 | 10 | 805 |
| Rammer Operator | | | | | | | | | 1 | 1 | 1 | 0.5 | 3.5 | 23 | 80.5 | 10 | 805 |
| TOTAL CRAFT LABOR | | | | | | | | | 9 | 9 | 9 | 4.5 | 31.5 | 23 | 724.5 | 10 | 7245 |
| TOTAL SUPERVISION | | | | | | | | | 1 | 1 | 1 | 0.5 | 3.5 | 23 | 80.5 | 10 | 805 |
| TOTAL MANPOWER | | | | | | | | | 10 | 10 | 10 | 5 | 35 | 23 | 805 | 10 | 8050 |
| EQUIPMENT | | | | | | | | | | | | | | | | | |
| Rammer Jumping Jack | | | | | | | | | 1 | 1 | 1 | 1 | | | | | |
| Excavator | | | | | | | | | 2 | 2 | 2 | 2 | | | | | |
| Steam Roller | | | | | | | | | 1 | 1 | 1 | 1 | | | | | |
| Crawler Crane 75 ton | | | | | | | | | 1 | 1 | 1 | 1 | | | | | |
| Welder, gas engine, 300 amps | | | | | | | | | | | | | | | | | |
| TRUCK DELIVERIES PER MONTH | | | | | | | | | | | | | | | | | |
| Gravel/Fill Material/Asphalt | | | | | | | | | 10 | 10 | 10 | 10 | | | | | |
| Mechanical: Pipes, Fittings, Pumps etc. | | | | | | | | | 2 | 2 | 2 | 2 | | | | | |