Ways and Means Committee
5:00 p.m., Tuesday, January 21, 2020
City Hall Conference Room
1207 Palm Boulevard
Isle of Palms, South Carolina

Agenda

1. **Call to order** and acknowledgment that the press and the public have been duly notified of the meeting in accordance with the Freedom of Information Act.

2. **Election of Chair and Vice Chair**

3. **Approval of previous meeting's minutes – November 19, 2019**

4. **Citizens' Comments – Comments shall be limited to 3 minutes**

5. **Financial Statements –** Treasurer Debbie Suggs
    a. Financial Reports
    b. Project Worksheets

6. **Old Business**

7. **New Business**
    a. Recommendation from the Public Safety Committee for the approval of sole source contract in the amount of $30,994.27 to Safe Fleet Mobile Vision for the replacement of six (6) in-car camera systems [FY20 Budget, Hospitality Tax Fund, Police, Capital Outlay - $57,000, pg.20, ln.21]
    b. Consideration of approval of a contract to Bohicket Construction LLC in the amount of $64,136.00 for a diesel generator and transfer switch for the Public Works workshop [FY20 Budget, Capital Projects, Public Works, Capital Outlay- $37,500; State ATAX, Public Works, Capital Outlay- $37,500]
    c. Consideration of projects to submit as priorities for funding from the Transportation Sales Tax Program (TST)
    d. Discussion of FY21 Budget calendar
    e. Consideration that any commercial tenant occupation of real property, i.e. all marina properties, adhere to competitive bid procurement methods

8. **Miscellaneous Business**
    Next meeting date: 5:00 p.m., Tuesday, February 18, 2020

8. **Executive Session** – If needed

9. **Adjournment**

WAYS AND MEANS COMMITTEE
5:00pm, Tuesday, November 19, 2019
City Hall Council Chambers
1207 Palm Boulevard, Isle of Palms, South Carolina

MINUTES

1. **Call to Order**

Present: Mayor Carroll, Council members Ward (Chair), Ferencz, Rice, Kinghorn, Bell, Smith, Moye

Staff Present: Administrator Fragoso, Asst. City Administrator Hanna, Treasurer Suggs, City Department Heads

2. Approval of Previous Meeting's Minutes

Mayor Carroll made a motion to approve the minutes of the October 15, 2019 meeting, and Council Member Bell seconded the motion. The minutes passed unanimously.

3. **Citizen's Comments** – none

4. **Financial Report – Treasurer Debbie Suggs**

Treasurer Suggs gave the monthly Financial Report. She reports the City's budget is on track as expected for this time in the fiscal year. $14M of the $19M budget has yet to be collected due to property taxes not yet being received from the County. She noted that while expenditures are a little under budget to date, the personnel costs for Fire and Police are up due to Hurricane Dorian. Administrator Fragoso added that she has met with FEMA about reimbursement for Public Works and Public Safety personnel costs related to Hurricane Dorian. She said that Public Works personnel costs associated with debris removal should be reimbursed 75% and only overtime costs incurred in Public Safety will be reimbursed.

Treasurer Suggs said no significant trends have been noted to date but that significant, planned expenditures have not yet been incurred. Council Member Bell pointed out that Morgan Creek Grill has still not paid the rent due to the City and the impact of that should be looked at moving forward. Administrator Fragoso noted the new fire truck will arrive in January, the older tower truck in in Florida for repairs, and payment on both are due upon delivery.

Treasurer Suggs pointed out the ATAX trends, stating they are up for the State ATAX but down for the County ATAX. She said this is most likely due to AirBNB not paying county taxes are they are supposed to. While she expects the County will work that issue out with AirBNB, the City will likely never recover the money it is due.

Lastly, she noted there were no changes to the Phase III Drainage project worksheet, but a new worksheet for the Public Safety Building renovation has been added.

5. **Old Business** – none

6. **New Business**

A. Recommendation from the Accommodations Tax Advisory Committee for the City ot approve sponsorship request from the IOP Turtle Team and the IOP Exchange Club for the Isle of Palms Turtle Hatching Scavenger Hunt in the amount of $6,000 [State ATAX, General Government, Programs/Sponsorships - $85,000 p. 22, ln. 20]

Kitty Riley, Chair of the Community Service Committee for the Exchange Club, gave an overview of the Turtle Hatching Scavenger Hunt and its goals. She expressed gratitude for the teamwork between the Exchange Club, the City, and the island businesses in bringing this effort to fruition. The Exchange Club plans to have the hunt ready for the Front Beach Festival in March. She hopes to expand the Hunt to the Marina and Recreation Center in the future.

MOTION: Council Member Rice made a motion to approve the request for funding, and Council Member Smith seconded the motion. The motion passed unanimously.

B. Recommendation from the Public Safety Committee to approve unbudgeted expenditure in an amount not to exceed $10,000 for the purchase and installation of a safety camera at Breach Inlet

Council Member Buckhannon said this camera is to aid in providing a quicker response to incidents at Breach Inlet. Council Member Kinghorn suggested referring to the camera as a "safety camera" and not a "surveillance camera." Administrator Fragoso said this camera will be monitored by police and fire personnel as are the other cameras. She also said that while this is an unbudgeted expense, she would like to use the money saved on the vehicle purchases to secure the camera.

MOTION: Council Member Bell made a motion to approve the request and Council Member Rice seconded the motion. The motion passed unanimously.

C. Recommendation from the Public Safety Committee to implement a Reserve Officer Program in the Police Department

Administrator Fragoso stated this request comes as a recommendation from Chief Cornett. A recently retired IOP officer meets the qualifications for a reserve officer and he would like to continue to serve the City on a volunteer basis. The only cost to the City is $184/year for Worker's Compensation as the officer has the uniform and training requirements needed. Chief Cornett said there is no plan at this time to expand the program, but should the need arise, he will look into other areas of the Public Safety budget for funding.

MOTION: Council Member Buckhannon made a motion to approve, and Council Member Bell seconded the motion. The motion passed unanimously.

D. **Recommendation from the Real Property Committee to apply to the Greenbelt Program to use the City's allocation for the construction of an ADA-Compliant Beach Walkover and Observation Deck at 42nd Avenue**

Council Member Bell explained the City has approximately $149,000 in allocated Greenbelt Funds from the County to use, and the Real Property Committee has recommended those funds be used to build a beach walkover and observation deck made of ipe wood at the 42nd Avenue beach access. He noted there is one handicap spot there at this time, and he would like to see that increased to four handicap spots.

MOTION: Council Member Ferencz made a motion to approve, and Council Member Rice seconded the motion.

When asked if other projects had been considered, Administrator Fragoso said these funds are usually used to purchase land, which is not available on the island. She also noted the Real Property Committee's desire to increase handicapped access to the beach. She shared that the City expects to receive $40-45,000 each year into this fund and other projects will be considered in the future as the monies can only be used on new initiatives.

VOTE: The motion passed unanimously.

E. Consideration of an award to Insight Group, LLC in the amount of $26,840 for construction management services for the Public Safety Building Repair Project [Capital Projects, Police, Capital Outlay - $1,209,000, pg. 16, ln. 29; Capital Projects, Fire, Capital Outlay - $2,324,500, pg. 16, ln. 41]

MOTION: Mayor Carroll made a motion to approve the request, and Council Member Ferencz seconded the motion.

Administrator Fragoso stated the budget for the Public Safety Building Rehabilitation project included monies for an owner's representative. She said that Insight Group has worked with Trident Construction in the past, and Trident recommends them. She pointed out the contract is based on a number of hours, which may need to be revised depending on how the project moves forward. When asked about guarantees, Administrator Fragoso said that Insight maintains insurance. She also shared that Director Kerr and Chief Graham approve of the selection of Insight Group.

VOTE: The motion passed unanimously.

F. Consideration of approval of an amount not to exceed $100,000 for the 12-month rental of one (1) double-wide and one (1) triple-wide temporary offices for the Police and Fire Departments to use during the rehabilitation of the Public Safety Building [Capital Projects, Police, Capital Outlay - $1,209,000, pg. 16, ln. 29; Capital Projects, Fire, Capital Outlay - $2,324,500, pg. 16, ln. 41]

MOTION: Council Member Bell made a motion to approve, and Council Member Rice seconded the motion.

Administrator Fragoso said the City had received pricing from the same company that is currently leasing them the trailer for the Fire Department staff. As those costs exceeded the approval threshold for the City Administrator or Council to award without a competitive bidding process. She noted, "Due to time constraints since Council is not meeting in December and we

cannot wait really until the end of January to award a contract, we are requesting you all to approve a not-to-exceed amount."

She stated the City will still go through the competitive bidding process as required by code. The plan is to have the trailers in place in the first part of February so they are hooked up to power and the Internet prior to staff moving in. The trailers are commercially graded and secured to the ground but could be moved in the event of a storm. However, there are no guarantees they could be moved ahead of a storm. Chief Graham shared that one set of trailers had been moved off the island during a past storm, but they were not moved for Hurricane Dorian. Administrator Fragoso said the trailers are meant to support all operations of the Police department except for IT and the Evidence Room, which will remain where they are during construction.

VOTE: The motion passed unanimously.

7. **Miscellaneous Business**

The next meeting of the Ways and Means Committee will be Tuesday, January 21, 2020 at 5:00pm in City Hall.

8. **Executive Session** – none needed

9. **Adjournment**

The meeting was adjourned at 5:38pm.

Respectfully submitted,

Nicole DeNeane
City Clerk

City of Isle of Palms
Financial Statement Summary as of December 31, 2019
(Dollars in Thousands)

	REVENUES						TRANSFERS IN / (OUT)						EXPENDITURES					
	YTD Actual	Annual Budget	Remaining to Collect	YTD Actual as a % of Budget	Current Annual Forecast	Forecast Above or (Below) Budget	YTD Actual	Annual Budget	Remaining to Transfer	YTD Actual as a % of Budget	Current Annual Forecast	Forecast Above or (Below) Budget	YTD Actual	Annual Budget	Remaining to Spend	YTD Actual as a % of Budget	Current Annual Forecast	Forecast Above or (Below) Budget
General	$ 3,640	$ 11,567	$ 7,927	31%	$11,567	$ -	$ -	$ (239)	$ 239	0%	$ (239)	$ -	$ 4,755	$ 11,328	$ 6,573	42%	$11,328	$ -
Capital Projects	46	1,212	1,166	4%	1,212	-	-	1,137	(1,137)	0%	1,137	-	175	4,384	4,209	4%	4,384	-
Muni Accom Tax	892	1,636	744	55%	1,636	-	-	(459)	459	0%	(459)	-	330	2,309	1,979	14%	2,309	-
Hospitality Tax	394	828	434	48%	828	-	-	(230)	230	0%	(230)	-	111	746	635	15%	746	-
State Accom Tax	862	1,894	1,032	46%	1,894	-	-	(279)	279	0%	(279)	-	173	2,392	2,219	7%	2,392	-
Beach Prserv Fee	532	1,099	567	48%	1,099	-	-	-	-		-	-	9	484	475	2%	484	-
Marina	221	429	208	52%	429	-	-	74	(74)	0%	74	-	123	399	276	31%	399	-
Disaster Recovery	26	42	16	62%	42	-	-	-	-		-	-	40	10	(30)	400%	10	-
All Other	153	168	15	91%	168	-	-	(4)	4	0%	(4)	-	256	160	(96)	160%	160	-
Total All Funds	$ 6,766	$ 18,875	$ 12,109	36%	$18,875	$ -	$ -	$ -	$ -	0%	$ -	$ -	$ 5,972	$ 22,212	$ 16,240	27%	$22,212	$ -

General Fund YTD Revenues

	FY20 YTD Actual	FY20 Budget	% of FY20 Budget	FY19 YTD Actual	% of Prior YTD	Updated Annual Forecast	Forecast Above/ (Below) Budget
Prop Tax	$ 888	$ 4,399	20%	$ 957	93%	$ 4,399	-
LO Sales Tax	305	811	38%	287	106%	811	-
Business Lic	292	1,438	20%	269	109%	1,438	-
Rental Lic	946	1,020	93%	509	186%	1,020	-
Other Lic (Insurnce/Utilities)	64	1,594	4%	10	640%	1,594	-
Build Pmts	204	568	36%	175	117%	568	-
From State	79	268	29%	74	107%	268	-
Parking	540	947	57%	364	148%	947	-
All Other	322	523	62%	345	93%	523	-
Total	$ 3,640	$ 11,567	31%	$ 2,990	122%	$ 11,567	$ -

General Fund YTD Expenditures (YTD target = 50%)

	FY20 YTD Actual	FY20 Budget	% of FY20 Budget	FY19 YTD Actual	% of Prior YTD	Current Annual Forecast
Mayor/Council	$ 82	$ 142	58%	$ 74	111%	$ 142
General Govt	489	1,859	26%	565	87%	1,859
Police	1,095	2,746	40%	1,181	93%	2,746
Fire	1,642	3,313	50%	1,588	103%	3,313
Public Works	657	1,433	46%	609	108%	1,433
Build & Lic	210	441	48%	198	106%	441
Recreation	455	1,045	44%	452	101%	1,045
Judicial	90	223	40%	91	99%	223
BSOs	35	126	28%	61	57%	126
Total	$ 4,755	$ 11,328	42%	$ 4,819	99%	$ 11,328

City of Isle of Palms Supplemental Financial Information as of December 31, 2019 (*Dollars in Thousands*)

Cash Balances

	12/31/2019	12/31/2018
General Fund	4,347	2,296
As a % of GF Exp (target is > 30%)	***38%***	***21%***
Capital Projects	3,892	3,799
Disaster Recovery	2,496	2,390
Marina	718	992
Tourism Funds	5,900	5,465
Beach Restoration	-	227
Beach Preservation	3,145	1,787
Other Restricted	146	246
Total All Cash	20,644	17,202
Deposits at LGIP (1.8425%)	***20,016***	***97%***
Deposits at BBT	***628***	***3%***

Fund Balances

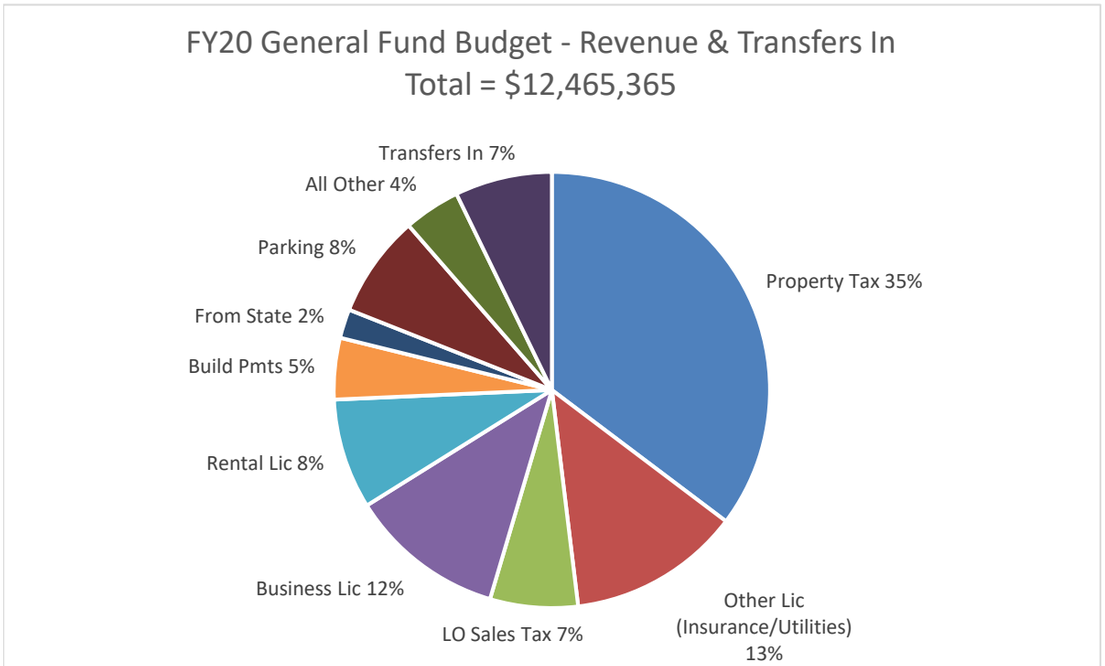
Fund	6/30/2019 Audited Fund Balance (Note 1)	FY20 YTD Actual Net Revenues & Transfers Less Expenses	Current Actual Fund Balance	**6/30/20 Forecasted Fund Balance**
General Fund	$ 3,420	$ (1,115)	2,305	**$ 3,420**
Capital Projects	5,772	(129)	5,643	**3,737**
Muni Accom Tax	1,622	562	2,184	**490**
Hospitality Tax	1,078	283	1,361	**930**
State Accom Tax	1,813	689	2,502	**1,036**
Beach Funds	2,620	523	3,143	**3,235**
Marina (See Note 1)	620	98	718	**724**
Disaster Recovery	2,598	(14)	2,584	**2,630**
All Other	249	(103)	146	**253**
Total All Funds	$ 19,792	$ 794	$ 20,586	**$ 16,455**

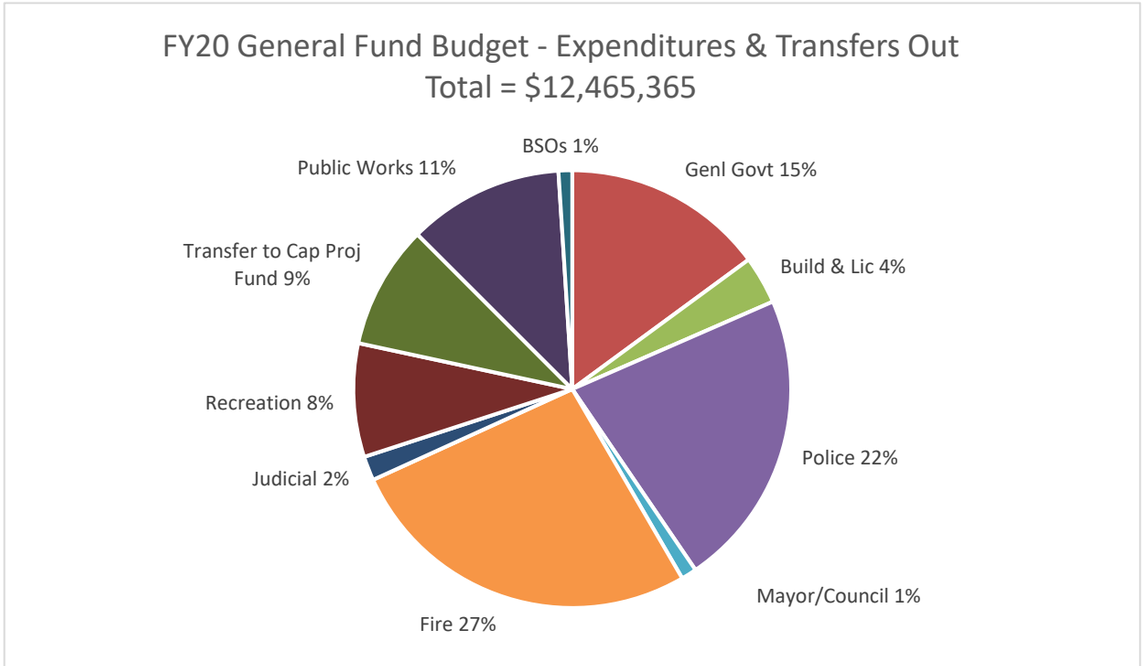
Note 1: The comparable amount for the Marina Enterprise Fund is not Fund Balance, but Net Position. To be consistent with the presentation of the other funds, the amount included here for the Marina is the Unrestricted Net Position, which does not include $6,011,000 of fixed assets.

December Notes:

- One-half of the fiscal year has passed, and financial results continue to generally track as expected.
- General Fund revenues are 22% ahead of the prior year, primarily as the result of increases in rental license, building permit and parking rates. The FY20 budget anticipates these increases.
- Total General Fund expenditures are below both the prior year and the FY20 budget target of 50%.
- YTD total personnel costs are slightly below the 50% budget target, although YTD overtime expense in Police, Fire and Public Works are ahead of budget due primarily to Hurricane Dorian. The City expects to recover some portion of Dorian related OT from FEMA.
- Total tourism revenue collections for the 1st half of the fiscal year, including Hospitality Tax and Beach Preservation, are 2% ahead of the prior year.
- No other significant financial variances or trends were noted and currently the forecast for the year is the same as the budget.
- Cash positions and Fund Balances are strong due to the City's good financial performance in FY19 and little spending on the major FY20 projects - Public Safety Building repair, fire truck purchase, fire truck refurb and drainage. All these projects are underway, but significant spending has not occurred YTD.

City of Isle of Palms General Fund





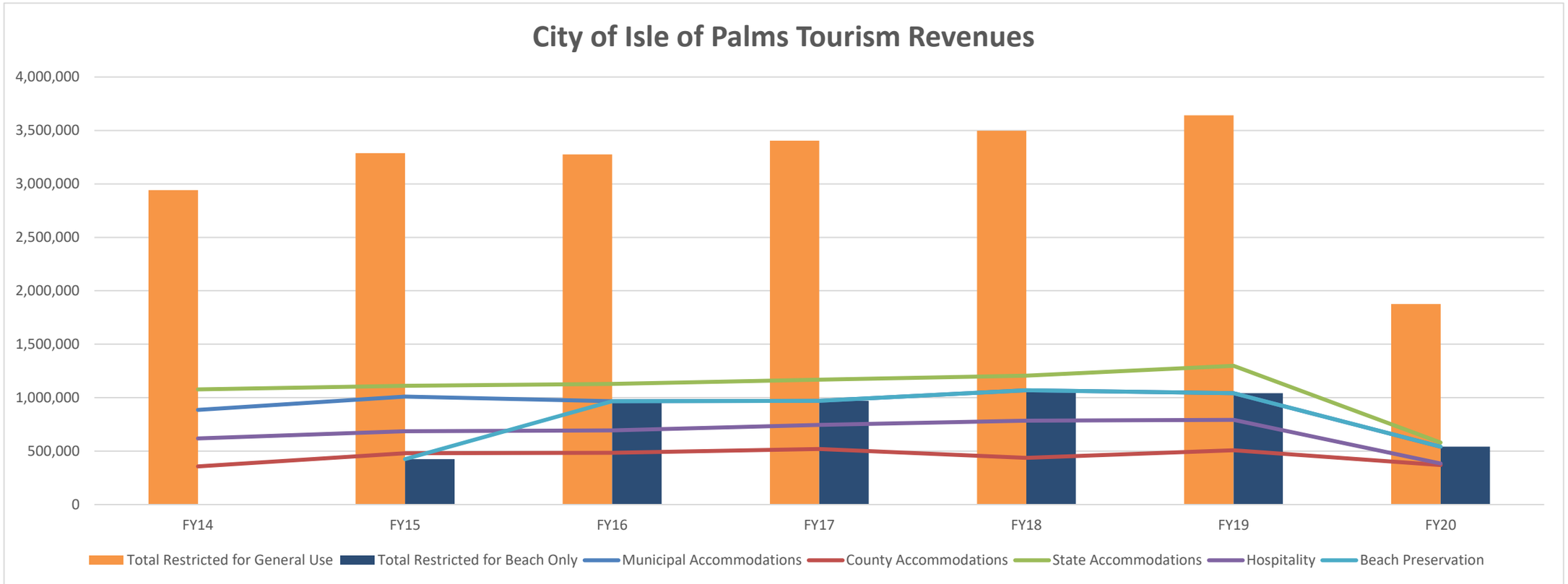
Estimate Isle of Palms Residents' Cost of Service:

Assumes 4% Primary Residence Assessessment Ratio

Cost relates to Property Taxes Only, Not Other Fees

Isle of Palms Millage Rates:	
Operating Millage	0.0213
Debt Service Millage	0.0034
Total IOP Millage	0.0247
Local Opt SalesTax Credit	(0.0002)

	FY12 General Fund Expense Budget	% of Gen Fund Expense	*Appraised Value* *$500,000*	*$750,000*	*$1,000,000*
			Resident Property Tax by Department:		
Mayor & Council	142,205	1%	$ 4.49	$ 6.74	$ 8.99
General Government	1,859,464	15%	58.77	88.16	117.55
Police	2,746,081	22%	86.80	130.20	173.59
Fire	3,312,615	27%	104.70	157.06	209.41
Public Works	1,432,655	11%	43.31	64.97	86.63
Building & Planning	440,572	4%	13.93	20.89	27.85
Recreation	1,045,322	8%	33.04	49.56	66.08
Judicial	223,179	2%	7.05	10.58	14.11
Beach Service Officers	125,989	1%	3.98	5.97	7.96
Transfers to Capital Projects Fund	1,137,284	9%	35.95	53.92	71.89
	12,465,366	100%	$ 356.08	$ 534.12	$ 712.17



	FY14	FY15	FY16	FY17	FY18	FY19	FY20	YTD FY19	YTD FY20	% INCR / (DECR)
Municipal Accommodations	886,286	1,010,881	967,728	969,974	1,069,429	1,042,551	541,316	545,296	541,316	-1%
County Accommodations	357,191	479,813	485,093	520,000	437,000	508,000	370,500	381,000	370,500	-3%
State Accommodations	1,078,259	1,111,010	1,129,474	1,168,660	1,205,838	1,298,212	580,306	546,269	580,306	6%
Hospitality	619,399	686,537	694,206	746,402	785,452	792,527	384,355	352,089	384,355	9%
Beach Preservation		425,226	966,152	969,974	1,069,429	1,042,551	541,316	545,296	541,316	-1%
	2,941,136	3,713,467	4,242,653	4,375,010	4,567,149	4,683,842	2,417,793	2,369,950	2,417,793	2%
Total Restricted for General Use	2,941,136	3,288,241	3,276,501	3,405,036	3,497,719	3,641,291	1,876,477	1,824,654	1,876,477	3%
Total Restricted for Beach Only	-	425,226	966,152	969,974	1,069,429	1,042,551	541,316	545,296	541,316	-1%
Grand Total	2,941,136	3,713,467	4,242,653	4,375,010	4,567,149	4,683,842	2,417,793	2,369,950	2,417,793	2%
		26%	14%	3%	4%	3%	-48%			

City of Isle of Palms
Drainage Phase 3

FY19 Budget for design & engineering	**400,000**
Less Unspent FY19 Budget	**(299,647)**
FY20 Budget for remainder of design & permitting of outfalls	**200,000**
FY20 Budget for small internal drainage projects	**500,000**
Contracts/Change Orders	**(856,700)**
Budget Funds Remaining	**(56,347)**

Contracts and Change Orders Approved :

		Engineering & Design	Project Admin	Construction	Legal & Misc	Total
Thomas & Hutton	Proj .0000 - Outfall Study - surveying, engineering & design	100,800				100,800
Thomas & Hutton	Proj .0000 - Change Order #1 for Project Admin & Meetings	-	13,000		-	13,000
Thomas & Hutton	Proj .0001- Tabby Lane outfall project engineering & design	7,500				7,500
Thomas & Hutton	Proj .0002 - engineering **study** for small but high impact projects in basin	23,300			-	23,300
Thomas & Hutton	Proj .0003 - **design & permitting** for small but high impact projects in basin	62,600				62,600
Thomas & Hutton	Proj .0004 - **eng & design fee for outfalls** @ 30th Ave & Forest Trail + 41st Ave improves	229,500				229,500
	Estimate for construction of small high impact projects			420,000		420,000
		423,700	13,000	420,000	-	856,700

Project Expenditures:

Invoice Date	Invoice #	Payee	Description of Work			
3/1/2019	176411	Thomas & Hutton Engineering	Proj .0000	2,174	1,680	3,854
5/1/2019	177576	Thomas & Hutton Engineering	Proj .0000	27,588	1,120	28,708
5/9/2019	178378	Thomas & Hutton Engineering	Proj .0000	22,765		22,765
5/9/2019	178378	Thomas & Hutton Engineering	Proj .0001	2,080		2,080
5/21/2019	179304	Thomas & Hutton Engineering	Proj .0000	11,060	1,120	12,180
5/31/2019	179305	Thomas & Hutton Engineering	Proj .0001	4,351		4,351
6/30/2019	180267	Thomas & Hutton Engineering	Proj .0000	18,100	1,695	19,795
6/30/2019	180269	Thomas & Hutton Engineering	Proj .0001	871		871
6/30/2019	180268	Thomas & Hutton Engineering	Proj .0002	5,750		5,750
7/31/2019	181262	Thomas & Hutton Engineering	Proj .0000	8,295	2,858	11,153
7/31/2019	181261	Thomas & Hutton Engineering	Proj .0002	11,500		11,500
8/31/2019	182270	Thomas & Hutton Engineering	Proj .0000	1,425	2,808	4,233
8/31/2019	182271	Thomas & Hutton Engineering	Proj .0002	5,750		5,750
9/30/2019	183220	Thomas & Hutton Engineering	Proj .0000	2,824		2,824

Project Expenditures, continued:

Invoice Date	Invoice #	Payee	Description of Work	Engineering & Design	Project Admin	Construction	Legal & Misc	Total
10/31/2019	184221	Thomas & Hutton Engineering	Proj .0003	10,315				10,315
10/31/2019	184222	Thomas & Hutton Engineering	Proj .0004	5,345				5,345
10/31/2019	184222	Thomas & Hutton Engineering	Proj .0004	550	1,720			2,270
11/30/2019	184989	Thomas & Hutton Engineering	Proj .0003	18,470				18,470
11/30/2019	184990	Thomas & Hutton Engineering	Proj .0004	4,146				4,146
			Total paid	163,359	13,000	-	-	176,359
			Remaining on contracts	260,341	-	420,000	-	680,341

City of Isle of Palms
Public Safety Building Repair

FY19 Spending (Phase I)	**95,267**
FY20 Capital Project Fund Budget	**2,300,000**
FY20 Muni Atax Fund Budget	**1,000,000**
FY20 State Atax Fund Budget	**1,000,000**
FY21 Forecast Spending	**1,900,000**
Total Project Cost Estimate	**6,295,267**
Contracts/Change Orders	**(490,914)**
Estimated Contingency/Relocation	**(943,222)**
Budget Funds Remaining	**4,861,131**

Contracts and Change Orders Received:

		Investigation & Design	Construction Admin	Construction	City's Conting + Relocation + Owners Rep	Total
Trident Construction Phase I	Investigative work & scope development	95,267				95,267
Trident Construction Phase II	Design and Engineering	395,647				395,647
Trident Construction Phase III	Construction estimate is $4,861,000					-
City Contingency (15%), Relocation and Owners Representative					943,222	943,222
		490,914	-	-	943,222	1,434,136

Project Expenditures:

Invoice Date	Payee	Description of Work	Investigation & Design	Construction Admin	Construction	City's Conting + Relocation + Owners Rep	Total
5/8/19	Trident Construction	Phase I - Pay App #1	86,420				86,420
6/30/19	Trident Construction	Phase I - Pay App #2	8,847				8,847
10/30/19	Trident Construction	Phase II - Pay App #1	131,049				131,049
1/9/20	Trident Construction	Phase II - Pay App #2	136,142				136,142
FY19	Williams Scotsman	rent on construction trailer				9,825	9,825
FY20	Williams Scotsman	rent on construction trailer				3,912	3,912
							-
							-
							-
		Total paid	362,457	-	-	13,737	376,194
		Remaining on contracts	128,457	-	-	929,485	1,057,942

1/17/2020, 12:23 PM

Isle of Palms Police Department

Memo

To: City Administrator Desiree Fragoso

From: Chief Kevin Cornett

Date: December 18, 2019

Re: Sole Source – Safe Fleet Mobile Vision, Inc. – Patrol Vehicle In-Car Camera System

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I am requesting that City Council authorize a contract in the amount of $30,994.27 to Safe Fleet Mobile Vision (formerly known as L3 Mobile Vision, Inc.) for the purchase of six (6) Flashback HD In-Car Camera Systems with rear seat camera kit for patrol vehicles. As in 2018, I am requesting that Safe Fleet Mobile Vision be designated as a sole source provider, in compliance with the City's Purchasing Procedures, Section 1-10-3, which allows for a contract to be awarded without competitive bidding when the Purchasing Agent (i.e., the City Administrator) reasonably determines that there is only one qualified source for the required goods or services.

Safe Fleet Mobile Vision is the only supplier able to meet the needs of the Police Department. The Police Department currently utilizes a server and software from Safe Fleet Mobile Vision for our body-worn camera and in-car camera solution. By continuing to purchase the Flashback HD In-Car Camera Systems from Safe Fleet Mobile Vision, we ensure the integrity and technology will remain the same and therefore, facilitate its administration, monitoring, maintenance and production of DVDs as required for legal discoveries and FOIA requests. According to the provisions of the Code, this statement must be submitted to City Council and entered in the minutes of the Council.

I recommend that City Council approve the use of Safe Fleet Mobile Vision as one qualified source for the purchase of six (6) Flashback HD In-Car Camera Systems for Police Department patrol vehicles.

OFFICIAL SEALED BID OPENING
RFB 2019-07 Diesel Generator and Transfer Switch
11:00 p.m., January 3, 2019
Council Chambers in City Hall
1207 Palm Boulevard, Isle of Palms, South Carolina

Present: Assistant City Administrator Hanna

Assistant Administrator Hanna announced the sealed bid opening of the RFB 2019-07 Diesel Generator and Transfer Switch for Public Works Building. He stated that the Request for Bid (RFB) was advertised in accordance with the City's Procurement Code.

Proposals:

1. PAGE Power Systems, Inc. - submitted a bid including the following: Mobilization and Demobilization ($3,000.00), Demolition and Disposal ($6,000.00), Site Preparation and New Foundation ($10,000.00), New Generator and Installation ($45,494.00), and New Transfer Switch and Installation ($4,871.00) for a total of ($69,365.00)

2. Electric Supply Co., Inc. - submitted a bid including the following: Mobilization and Demobilization ($7,000.00), Demolition and Disposal ($8,000.00), Site Preparation and New Foundation ($12,500.00), New Generator and Installation ($38,000.00), and New Transfer Switch and Installation ($7,500.00) for a total of ($73,000.00)

3. Bohicket Construction, LLC.- submitted a bid including the following: Mobilization and Demobilization ($11,518.00), Demolition and Disposal ($1,321.00), Site preparation and New Foundation ($12,538.00), New Generator and Installation ($34,249.00), and New Transfer Switch and Installation ($4,510.00) for a total of ($64,136.00).

Assistant Administrator Hanna indicated that the proposal will be evaluated for accuracy and compliance with the specification as defined in the RFB. A contract will be executed in accordance with the instructions included in the RFB.

Cummins Inc. – South Region
231 Farmington Rd.
Summerville, SC 29483
Direct: (843) 877-1773

DATE: December 18, 2019
Kenneth Luther
Power Generation
Territory Manager
Email: kenneth.luther@cummins.com

Isle of Palms – Public Works Building Generator

One (1) Cummins Power Generation Diesel Generator model C60D6C, Rated 60 kW Standby, 120/208 VAC, 3 Phase, 4 wire, with the following options:

- U.S. EPA, Stationary Emergency Application
- 60HZ
- Duty Rating-Standby Power
- Listing-UL 2200
- NFPA 110 Type 10 Level 1 Capable
- Emissions Certification, EPA, Tier 3, NSPS CI Stationary Emergency
- Enclosure-Aluminum, Weather Protective, w/ Exhaust System
- Enclosure Color-Green, Aluminum Enclosure
- Enclosure - Wind Load 180MPH, ASCE7-10
- Voltage-120/208,3 Phase,Wye,4 Wire
- Alternator-60Hz,Reconnect,Full Output,105C,40C amb, IMS
- Generator Set Control-Power Command 2.3
- Exciter/Regulator-PMG, 3 Phase Sensor
- Engine Governor-Electronic, Isochronous Only
- Gauge-Oil Pressure
- Meters-AC Output, Analog
- Amp Sentry TM Protective Relay
- Stop Switch-Emergency
- Relays-Auxiliary, Quantity 2, (25A-15V DC)/(10A-30V DC)
- Signals - Auxiliary, 8 Inputs/8 Outputs
- Control Mounting-Left Facing
- Load Connection-Single
- Circuit Breaker, 225A,3P,600VAC,80%,UL
- Fuel Tank-Basic, 2 Wall, Sub Base, 24Hr Minimum
- Separator-Fuel/Water
- Switch-Low, 40% Fuel
- Mechanical Fuel Gauge
- Riser-Fuel Tank, 2 inch
- Switch-Fuel Tank, Rupture Basin, Installed
- Engine Starter - 12 VDC Motor
- Battery Charging Alternator-Normal Output
- Engine Cooling-High Ambient Air Temperature
- Warning-Low Coolant Level

- Extension-Engine Coolant Drain
- Engine Coolant-50% Antifreeze, 50% Water Mixture
- Coolant Heater, Cold Ambient
- Engine Air Cleaner-Normal Duty
- Genset Warranty- Base (2 Year / 1000 Hours)
- Rack, Larger Battery
- Extension-Oil Drain

One (1) Cummins Model OTEC Automatic Transfer Switch

- Open Transition
- Electronic Control
- 225Amp
- Poles-3
- Listing-UL 1008/CSA Certification
- Frequency-60 Hertz
- System-3 Phase,3 Wire Or 4 Wire
- Voltage-208 Vac
- Cabinet-Type 1
- Battery Charger-15 Ampere, 12 Volt, 50/60 Hertz
- Auxiliary Relay-12 Vdc Coil-Installed Only
- Auxiliary Relay-Switch In Emergency Position-12VDC
- Auxiliary Relay-Switch In Normal Position-12VDC
- Genset Starting Battery-12VDC
- Clock-Exercise, External
- Transfer Switch Warranty - 1 Year Comprehensive

Generator Start-Up, Testing, & Commissioning

- One hour building load test
- One hour O&M training
- Start-up & alarm verification with a factory trained technician

Delivery

- FOB factory with freight allowed to jobsite, offloading by others.

Current Standard Lead Time

- Generator Set—Twelve (12) weeks after approved submittals
- ATS-Nine (9) weeks after approved submittals

***Notes & Clarifications:

1. The above proposal is based on bid document ***City of Isle of Palms, South Carolina Request for Bids (RFB) 2019-07 Diesel Generator and Transfer Switch for Public Works Workshop; II. Product Scope and Specifications, A, B, D, and E.***
2. All installation shall be provided by others.
3. All permits shall be provided by others.
4. All diesel fuel shall be provided by others.

TERMS AND CONDITIONS FOR SALE OF POWER GENERATION EQUIPMENT

These Terms and Conditions for Sale of Power Generation Equipment, together with the Quote, Sales Order, and/or Credit Application on the front side or attached hereto, are hereinafter referred to as this "Agreement" and shall constitute the entire agreement between the customer identified in the quote ("Customer") and Cummins Inc. ("Cummins") and supersede any previous representation, statements, agreements or understanding (oral or written) between the parties with respect to the subject matter of this Agreement. In the event of any inconsistency between this Agreement and any purchase order or document produced or delivered by Customer, the terms and conditions of this Agreement shall take precedence.

SCOPE. Cummins shall supply power generation equipment and any related parts, materials and/or services expressly identified in this Agreement (collectively, "Equipment"). No additional services, parts or materials are included in this Agreement unless agreed upon by the parties in writing. Any Quote is valid for 60 days. The price is firm provided drawings are approved and returned within 60 days after submission and ship date is not extended beyond published lead times. Any delays may result in escalation charges. A Sales Order for Equipment is accepted on hold for release basis. The Sales Order will not be released and scheduled for production until written approval to proceed is received. A Quote is limited to plans and specifications section set forth in the Quote. No other sections shall apply. Additional requirements for administrative items may require additional costs. The Quote does not include off unit wiring, off unit plumbing, offloading, rigging, installation, exhaust insulation or fuel, unless otherwise stated.

SHIPPING; DELIVERY; DELAYS. Unless otherwise agreed in writing by the parties, Equipment shall be delivered FOB origin, freight prepaid to first destination. For consumer and mobile products, freight will be charged to Customer. Unless otherwise agreed to in writing by the parties, packaging method, shipping documents and manner, route and carrier and delivery shall be as Cummins deems appropriate. Cummins may deliver in installments. A reasonable storage fee, as determined by Cummins, may be assessed if delivery of the Equipment is delayed, deferred, or refused by Customer. Offloading, handling, and placement of Equipment and crane services are the responsibility of Customer and not included unless otherwise stated. All shipments are made within normal business hours, Monday through Friday. Any delivery, shipping, installation, or performance dates indicated in this Agreement are estimated and not guaranteed. Further, delivery time is subject to confirmation at time of order and will be in effect after engineering drawings have been approved for production. Cummins shall use best efforts to meet estimated dates, but shall not be liable to customer or any third party for any delay in delivery, shipping, installation, or performance, however occasioned, including any delays in performance that result directly or indirectly from acts of Customer or any unforeseen event, circumstance, or condition beyond Cummins' reasonable control including, but not limited to, acts of God, actions by any government authority, civil strife, fires, floods, windstorms, explosions, riots, natural disasters, embargos, wars, strikes or other labor disturbances, civil commotion, terrorism, sabotage, late delivery by Cummins' suppliers, fuel or other energy shortages, or an inability to obtain necessary labor, materials, supplies, equipment or manufacturing facilities.

PAYMENT TERMS; CREDIT; RETAINAGE. Unless otherwise agreed to by the parties in writing and subject to credit approval by Cummins, payments are due thirty (30) days from the date of the invoice. If Customer does not have approved credit with Cummins, as solely determined by Cummins, payments are due in advance or at the time of supply of the Equipment. If payment is not received when due, in addition to any rights Cummins may have at law, Cummins may charge Customer eighteen percent (18%) interest annually on late payments, or the maximum amount allowed by law. Customer agrees to pay Cummins' costs and expenses (including reasonable attorneys' fees) related to Cummins' enforcement and collection of unpaid invoices, or any other enforcement of this Agreement by Cummins. Retainage is not acceptable nor binding, unless required by statute or accepted and confirmed in writing by Cummins prior to shipment.

TAXES; EXEMPTIONS. Unless otherwise stated, the Quote excludes all applicable local, state and federal sales and/or use taxes, permits and licensing. Customer must provide a valid resale or exemption certificate prior to shipment of Equipment or applicable taxes will be added to the invoice.

TITLE; RISK OF LOSS. Unless otherwise agreed in writing by the parties, title and risk of loss for the Equipment shall pass to Customer upon delivery of the Equipment by Cummins to freight carrier or to Customer at pickup at Cummins' facility.

INSPECTION AND ACCEPTANCE. Customer shall inspect the Equipment upon delivery, before offloading, for damage, defects, and shortage. Any and all claims which could have been discovered by such inspection shall be deemed absolutely and unconditionally waived unless noted by Customer on the bill of lading. Where Equipment is alleged to be non-conforming or defective, written notice of defect must be given to Cummins within three (3) days from date of delivery after which time Equipment shall be deemed accepted. Cummins shall have a commercially reasonable period of time in which to correct such non-conformity or defect. If non-conformity or defect is not eliminated to Customer's satisfaction, Customer may reject the Equipment (but shall protect the Equipment until returned to Cummins) or allow Cummins another opportunity to undertake corrective action. In the event startup of the Equipment is included in the services, acceptance shall be deemed to have occurred upon successful startup.

LIEN; SECURITY AGREEMENT. Customer agrees that Cummins retains all statutory lien rights. To secure payment, Customer grants Cummins a Purchase Money Security Interest in the Equipment. If any portion of the balance is due to be paid following delivery, Customer agrees to execute and deliver such security agreement, financing statements, deed of trust and such other documents as Cummins may request from time to time in order to permit Cummins to obtain and maintain a perfected security interest in the Equipment; or in the alternative, Customer grants Cummins a power of attorney to execute and file all financing statements and other documents needed to perfect this security interest. Cummins may record this Agreement, bearing Customer's signature, or copy of this Agreement in lieu of a UCC-1, provided that it shall not constitute an admission by Cummins of the applicability or non-applicability of the UCC nor shall the failure to file this form or a UCC-1 in any way affect, alter, or invalidate any term, provision, obligation or liability under this Agreement. The security interest shall be superseded if Customer and Cummins enter into a separate security agreement for the Equipment. Prior to full payment of the balance due, Equipment will be kept at Customer's location noted in this Agreement, will not be moved without prior notice to Cummins, and is subject to inspection by Cummins at all reasonable times.

CANCELLATION; CHARGES. Orders placed with and accepted by Cummins may not be cancelled except with Cummins' prior written consent. If Customer seeks to cancel all or a portion of an order placed pursuant to this Agreement, and Cummins accepts such cancellation in whole or in part, Cummins may charge Customer a cancellation charge in accordance with current Cummins policy which is available upon request, in addition to the actual, non- recoverable costs incurred by Cummins**.**

MANUALS. Unless otherwise stated, electronic submittals and electronic operation and maintenance manuals will be provided, and print copies may be available upon Customer's request at an additional cost.

TRAINING; START UP SERVICES; INSTALLATION. Startup services, load bank testing, and owner training are not provided unless otherwise stated. Site startup will be subject to the account being current and will be performed during regular Cummins business hours, Monday to Friday. Additional charges may be added for work requested to be done outside standard business hours, on weekends, or holidays. One visit is allowed unless specified otherwise in the Quote. A minimum of two-week prior notice is required to schedule site startups and will be subject to prior commitments and equipment and travel availability. A signed site check sheet confirming readiness will be required, and Cummins personnel may perform an installation audit prior to the startup being completed. Any issues identified by the installation audit shall be corrected at the Customer's expense prior to the start-up. Portable load banks for site test (if offered in the Quote) are equipped with only 100 feet of cable. Additional lengths may be arranged at an extra cost. Cummins is not responsible for any labor or materials charged by others associated with start-up and installation of Equipment, unless previously agreed upon in writing. Supply of fuel for start-up and/or testing, fill-up of tank after start up, or change of oil is not included unless specified in the Quote. All installation/execution work at the site including, but not limited to: civil, mechanical, electrical, supply of wall thimbles, exhaust extension pipe, elbows, hangers, expansion joints, insulation and cladding materials, fuel/oil/cooling system piping, air ducts, and louvers/dampers is not included unless specified in the Quote. When an enclosure or sub-base fuel tank (or both) are supplied, the openings provided for power cable and fuel piping entries, commonly referred to as "stub-ups", must be sealed at the site by others before commissioning. All applications, inspections and/or approvals by authorities are to be arranged by Customer.

MANUFACTURER'S WARRANTY. Equipment purchased hereunder is accompanied by an express written manufacturer's warranty ("Warranty") and, except as expressly provided in this Agreement, is the only warranty offered on the Equipment. A copy of the Warranty is available upon request. While this Agreement and the Warranty are intended to be read and applied in conjunction, where this Agreement and the Warranty conflict, the terms of the Warranty shall prevail.

WARRANTY PROCEDURE. Prior to the expiration of the Warranty, Customer must give notice of a warrantable failure to Cummins and deliver the defective Equipment to a Cummins location or other location authorized and designated by Cummins to make the repairs during regular business hours. Cummins shall not be liable for towing charges, maintenance items such as oil filters, belts, hoses, etc., communication expenses, meals, lodging, and incidental expenses incurred by Customer or employees of Customer, "downtime" expenses, overtime expenses, cargo damages and any business costs and losses of revenue resulting from a warrantable failure.

LIMITATIONS ON WARRANTIES

THE REMEDIES PROVIDED IN THE WARRANTY AND THIS AGREEMENT ARE THE SOLE AND EXCLUSIVE WARRANTIES AND REMEDIES PROVIDED BY CUMMINS TO THE CUSTOMER UNDER THIS AGREEMENT. EXCEPT AS SET OUT IN THE WARRANTY AND THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY LAW, CUMMINS EXPRESSLY DISCLAIMS ALL OTHER REPRESENTATIONS, WARRANTIES, ENDORSEMENTS, AND CONDITIONS OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY STATUTORY OR COMMON LAW IMPLIED REPRESENTATIONS, WARRANTIES AND CONDITIONS OF FITNESS FOR A PURPOSE OR MERCHANTABILITY.

The limited warranty does not cover Equipment failures resulting from: (a) inappropriate use relative to designated power rating; (b) inappropriate use relative to application guidelines; (c) inappropriate use of an EPA-SE application generator set relative to EPA's standards; (d) normal wear and tear; (e) improper and/or unauthorized installation; (f) negligence, accidents, or misuse; (g) lack of maintenance or unauthorized or improper repair; (h) noncompliance with any Cummins published guideline or policy; (i) use of improper or contaminated fuels, coolants, or lubricants; (j) improper storage before and after commissioning; (k) owner's delay in making Equipment available after notification of potential Equipment problem; (l) replacement parts and accessories not authorized by Cummins; (m) use of battle short mode; (n) owner or operator abuse or neglect such as: operation without adequate coolant, fuel, or lubricants; over fueling; over speeding; lack of maintenance to lubricating, fueling, cooling, or air intake systems; late servicing and maintenance; improper storage, starting,

warm-up, running, or shutdown practices, or for progressive damage resulting from a defective shutdown or warning device; or (o) damage to parts, fixtures, housings, attachments and accessory items that are not part of the generating set.

INDEMNITY. Customer shall indemnify, defend and hold harmless Cummins from and against any and all claims, actions, costs, expenses, damages and liabilities, including reasonable attorneys' fees, brought against or incurred by Cummins related to or arising out of this Agreement or the Equipment supplied under this Agreement (collectively, the "Claims"), where such Claims were caused or contributed to by, in whole or in part, the acts, omissions, fault or negligence of the Customer. Customer shall present any Claims covered by this indemnity to its insurance carrier unless Cummins directs that the defense will be handled by Cummins' legal counsel at Customer's expense.

LIMITATION OF LIABILITY

NOTWITHSTANDING ANY OTHER TERM OF THIS AGREEMENT, IN NO EVENT SHALL CUMMINS, ITS OFFICERS, DIRECTORS, EMPLOYEES, OR AGENTS BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES OF ANY KIND (INCLUDING WITHOUT LIMITATION DOWNTIME, LOSS OF PROFIT OR REVENUE, LOSS OF DATA, LOSS OF OPPORTUNITY, DAMAGE TO GOODWILL, ENHANCED DAMAGES, MONETARY REQUESTS RELATING TO RECALL EXPENSES AND REPAIRS TO PROPERTY, AND/OR DAMAGES CAUSED BY DELAY) IN ANY WAY RELATED TO OR ARISING FROM CUMMINS' SUPPLY OF EQUIPMENT UNDER THIS AGREEMENT OR THE USE OR PERFORMANCE OF EQUIPMENT SUPPLIED UNDER THIS AGREEMENT. IN NO EVENT SHALL CUMMINS' LIABILITY TO CUSTOMER OR ANY THIRD PARTY CLAIMING DIRECTLY THROUGH CUSTOMER OR ON CUSTOMER'S BEHALF UNDER THIS AGREEMENT EXCEED THE TOTAL COST OF EQUIPMENT SUPPLIED BY CUMMINS UNDER THIS AGREEMENT GIVING RISE TO THE CLAIM. BY ACCEPTANCE OF THIS AGREEMENT, CUSTOMER ACKNOWLEDGES CUSTOMER'S SOLE REMEDY AGAINST CUMMINS FOR ANY LOSS SHALL BE THE REMEDY PROVIDED HEREIN EVEN IF THE EXCLUSIVE REMEDY UNDER THE WARRANTY IS DEEMED TO HAVE FAILED OF ITS ESSENTIAL PURPOSE.

DEFAULT; REMEDIES. Customer shall be in breach and default if: (a) any of the payments or amounts due under this Agreement are not paid; (b) Customer fails to comply, perform, or makes any misrepresentation relating to any of the Customer's obligations or covenants under this Agreement; or (c) prior to full payment of the balance due, Customer ceases to do business, becomes insolvent, makes an assignment for the benefit of its creditors, appoints a receiver, commences an action for dissolution or liquidation, or becomes subject to bankruptcy proceedings, or the Equipment is attached, levied upon, seized under legal process, is subjected to a lien or encumbrance, or transferred by operation of law or otherwise to anyone other than Cummins.

Upon the occurrence of any event of Customer's default, Cummins, at its sole option and without notice, shall have the right to exercise concurrently or separately any one or all of the following remedies, which shall be cumulative and not alternative: (a) to declare all sums due, and to become due, under this Agreement immediately due and payable; (b) to commence legal proceedings, including collection actions and specific performance proceedings, to enforce performance by Customer of any and all provisions of this Agreement, and to be awarded damages or injunctive relief for the Customer's breach; (c) to require the Customer to deliver the Equipment to Cummins' branch specified on the face of this Agreement; (d) to exercise one or more of the rights and remedies available to a secured party under applicable law; and (e) to enter, without notice or liability or legal process, onto any premises where the Equipment may be located, using force permitted by law, and there to disconnect, remove and repossess the Equipment, the Customer having waived further right to possession after default. A waiver of any event of default by Cummins shall not be a waiver as to any other or subsequent default.

CUSTOMER REPRESENTATIONS; RELIANCE. Customer is responsible for obtaining, at its cost, permits, import licenses, and other consents in relation to the Equipment, and if requested by Cummins, Customer shall make these permits, licenses, and consents available to Cummins prior to shipment. Customer represents that it is familiar with the Equipment and understands operating instructions and agrees to perform routine maintenance services. Until the balance is paid in full, Customer shall care for the Equipment properly, maintain it in good operating condition, repair and appearance; and Customer shall use it safely and within its rated capacity and only for purpose it was designed. Even if Customer's purchase of Equipment from Cummins under this Agreement is based, in whole or in part, on specifications, technical information, drawings, or written or verbal advice of any type from third parties, Customer has sole responsibility for the accuracy, correctness and completeness of such specifications, technical information, drawings, or advice. Cummins make no warranties or representations respecting the accuracy, correctness and completeness of any specifications, technical information, drawings, advice or other information provided by Cummins. Cummins makes no warranties or representations respecting the suitability, fitness for intended use, compatibility, integration or installation of any Equipment supplied under this Agreement. Customer has sole responsibility for intended use, for installation and design and performance where it is part of a power, propulsion, or other system. Limitation of warranties and remedies and all disclaimers apply to all such technical information, drawings, or advice. Customer acknowledges and agrees by accepting delivery of the Equipment that the Equipment purchased is of the size, design, capacity and manufacture selected by the Customer, and that Customer has relied solely on its own judgment in selecting the Equipment.

CONFIDENTIALITY. Each party shall keep confidential any information received from the other that is not generally known to the public and at the time of disclosure, would reasonably be understood by the receiving party to be proprietary or confidential, whether disclosed in oral, written, visual, electronic, or other form, and which the receiving party (or agents) learns in connection with this Agreement including, but not limited to: (a) business plans, strategies, sales, projects and analyses; (b) financial information, pricing,

and fee structures; (c) business processes, methods, and models; (d) employee and supplier information; (e) specifications; and (f) the terms and conditions of this Agreement. Each party shall take necessary steps to ensure compliance with this provision by its employees and agents.

GOVERNING LAW AND JURISDICTION. This Agreement and all matters arising hereunder shall be governed by and construed in accordance with the laws of the State of Indiana without giving effect to any choice or conflict of law provision. The parties agree that the courts of the State of Indiana shall have exclusive jurisdiction to settle any dispute or claim arising in connection with this Agreement.

INSURANCE. Upon Customer's request, Cummins will provide to Customer a Certificate of Insurance evidencing Cummins' relevant insurance coverage.

ASSIGNMENT. This Agreement shall be binding on the parties and their successors and assigns. Customer shall not assign this Agreement without the prior written consent of Cummins.

INTELLECTUAL PROPERTY. Any intellectual property rights created by either party, whether independently or jointly, in the course of the performance of this Agreement or otherwise related to Cummins pre-existing intellectual property or subject matter related thereto, shall be Cummins' property. Customer agrees to assign, and does hereby assign, all right, title, and interest to such intellectual property to Cummins. Any Cummins pre-existing intellectual property shall remain Cummins' property. Nothing in this Agreement shall be deemed to have given Customer a licence or any other rights to use any of the intellectual property rights of Cummins.

MISCELLANEOUS. Cummins shall be an independent contractor under this Agreement.

All notices under this Agreement shall be in writing and be delivered personally, mailed via first class certified or registered mail, or sent by a nationally recognized express courier service to the addresses set forth in this Agreement.

No amendment of this Agreement shall be valid unless it is writing and signed by the parties hereto. Failure of either party to require performance by the other party of any provision hereof shall in no way affect the right to require such performance at any time thereafter, nor shall the waiver by a party of a breach of any of the provisions hereof constitute a waiver of any succeeding breach.

Any provision of this Agreement that is invalid or unenforceable shall not affect the validity or enforceability of the remaining terms hereof.

These terms are exclusive and constitute entire agreement. Customer acknowledges that the provisions were freely negotiated and bargained for and Customer has agreed to purchase of the Equipment pursuant to these terms and conditions. Acceptance of this Agreement is expressly conditioned on Customer's assent to all such terms and conditions. Neither party has relied on any statement, representation, agreement, understanding, or promise made by the other except as expressly set out in this Agreement. In the event of a conflict in the terms of this Agreement with any Customer terms or conditions or agreement (whether referenced in an order submitted by Customer as the terms that govern the purchase of the Equipment or otherwise) or any terms set forth in any other documentation of Customer with respect to the Equipment, the terms of this Agreement shall govern.

Cummins may incur additional charges which will be passed on to the Customer, as applicable.

COMPLIANCE. Customer shall comply with all laws applicable to its activities under this Agreement, including, without limitation, any and all applicable federal, state, and local anti-bribery, environmental, health, and safety laws and regulations then in effect. Customer acknowledges that the Equipment, and any related technology that are sold or otherwise provided hereunder may be subject to export and other trade controls restricting the sale, export, re-export and/or transfer, directly or indirectly, of such Equipment or technology to certain countries or parties, including, but not limited to, licensing requirements under applicable laws and regulations of the United States, the United Kingdom and other jurisdictions. It is the intention of Cummins to comply with these laws, rules, and regulations. Any other provision of this Agreement to the contrary notwithstanding, Customer shall comply with all such applicable all laws relating to the cross-border movement of goods or technology, and all related orders in effect from time to time, and equivalent measures. Customer shall act as the importer of record with respect to the Equipment and shall not resell, export, re-export, distribute, transfer, or dispose of the Equipment or related technology, directly or indirectly, without first obtaining all necessary written permits, consents, and authorizations and completing such formalities as may be required under such laws, rules, and regulations. In addition, Cummins has in place policies not to distribute its products for use in certain countries based on applicable laws and regulations including but not limited to UN, U.S., UK, and European Union regulations. Customer undertakes to perform its obligations under this Agreement with due regard to these policies. Strict compliance with this provision and all laws of the territory pertaining to the importation, distribution, sales, promotion and marketing of the Equipment is a material consideration for Cummins entering into this Agreement with Customer and continuing this Agreement for its term. Customer represents and warrants that it has not and shall not, directly or through any intermediary, pay, give, promise to give or offer to give anything of value to a government official or representative, a political party official, a candidate for political office, an officer or employee of a public international organization or any other person, individual or entity at the suggestion, request or direction or for the benefit of any of the above-described persons and entities for the purposes of inducing such person to use his influence to assist Cummins in obtaining or retaining business or to benefit Cummins or any other person in any way, and will not otherwise breach any applicable laws relating to anti-bribery. Any failure by Customer to comply with these provisions will constitute a default giving Cummins the right to immediate termination of this Agreement and/or the right to elect not to recognize the warranties associated with the Equipment. Customer shall accept full responsibility for any and all civil or criminal liabilities and costs arising from any breaches of those laws and regulations and will defend, indemnify, and hold Cummins harmless from and against any and all fines, penalties, claim, damages, liabilities, judgments, costs, fees, and expenses incurred by Cummins or its affiliates as a result of Customer's breach.

I hereby accept and agree to the terms and conditions stated above and accept the proposal as quoted:

Acceptance: _____ Date: _____

Hard Copy PO; No____ Yes____, PO #_____ (Please attach hard copy PO to proposal if supplying)

—We appreciate your interest in Cummins Power Generation and look forward to serving you.

Kenneth Luther
Power Generation, Territory Manager
Direct: (843) 877-1773
Email: kenneth.luther@cummins.com

A regional power leader, Cummins is a corporation of complementary business units that design, up-fit, distribute, and service electric power generation systems, engines, and related technologies, including fuel systems, controls, air handling, filtration, and emissions solutions. Cummins serves the markets of; Automotive, Trucking, Power Generation, Construction, Marine, Logging, Agriculture. When you buy a Cummins diesel engine, natural gas engine or Onan generator from Cummins, you can be sure you have a dependable product backed by a reliable service team. Together we make people's lives better by unleashing the power of Cummins. Cummins Standards are Safety, Caring, Dependability, and Responsiveness. Our Customer Support Philosophy is "We create confidence by delivering dependable solutions through industry leading products, support, and experience."

Specification sheet

Diesel generator set

QSB5 series engine
50-125 kW Standby
EPA Tier 3 emissions



Description

Cummins® generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary Standby applications.

Features

Heavy duty engine - Rugged 4-cycle industrial diesel delivers reliable power and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® 1.1 electronic control is standard equipment and provides total generator set system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance. The PowerCommand 2.3 control is also optional and is UL 508 Listed and provides AmpSentry™ protection.

Cooling system - Standard cooling package provides reliable running at up to 50 ℃ (122 ℉) ambient temperature.

Enclosures - The aesthetically appealing enclosure incorporates special designs that deliver one of the quietest generators of its kind. Aluminium material plus durable powder coat paint provides the best anti-corrosion performance. The generator set enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7 -10. The design has hinged doors to provide easy access for service and maintenance.

Fuel tanks - Dual wall sub-base fuel tanks are offered as optional features, providing economical and flexible solutions to meet extensive code requirements on diesel fuel tanks.

NFPA - The generator set accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor network.

	Standby 60 Hz		Prime 60 Hz		
Model	**kW**	**kVA**	**kW**	**kVA**	**Data sheets**
C50D6C	50	63	45	56	NAD-6212-EN
C60D6C	60	75	54	68	NAD-6213-EN
C80D6C	80	100	72	90	NAD-6214-EN
C100D6C	100	125	90	113	NAD-6215-EN
C125D6C	125	156	112.5	141	NAD-6216-EN

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Generator set specifications

Governor regulation class	ISO8528 Part 1 Class G3
Voltage regulation, no load to full load	± 1.0%
Random voltage variation	± 1.0%
Frequency regulation	Isochronous
Random frequency variation	± 0.50%
Radio frequency emissions compliance	FCC code title 47 part 15 class A and B

Engine specifications

Design	Turbocharged and charge air cooled
Bore	107 mm (4.21 in.)
Stroke	124 mm (4.88 in.)
Displacement	4.5 L (272 in^3)
Cylinder block	Cast iron, in-line 4 cylinder
Battery capacity	850 amps per battery at ambient temperature of 0 ℃ (32 ℉)
Battery charging alternator	100 amps
Starting voltage	2 x 12 volt in parallel, negative ground
Lube oil filter type(s)	Spin-on with relief valve
Standard cooling system	High ambient radiator
Rated speed	1800 rpm

Alternator specifications

Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Direct coupled, flexible disc
Insulation system	Class H per NEMA MG1-1.65
Standard temperature rise	120 ºC (248 ℉) Standby
Exciter type	Torque match (shunt) with PMG as option
Alternator cooling	Direct drive centrifugal blower
AC waveform Total Harmonic Distortion (THDV)	< 5% no load to full linear load, < 3% for any single harmonic
Telephone Influence Factor (TIF)	< 50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	< 3%

Available voltages

1-phase	3-phase				
• 120/240	• 120/208	• 120/240	• 277/480	• 347/600	• 127/220

Generator set options

Fuel system
- Basic fuel tanks
- Regional fuel tanks

Engine
- Engine air cleaner – normal or heavy duty
- Shut down – low oil pressure
- Extension – oil drain
- Engine oil heater

Alternator
- 120 ℃ temperature rise alternator
- 105 ℃ temperature rise alternator
- PMG excitation
- Alternator heater, 120 V
- Reconnectable full 1 phase output alternator

Control
- AC output analog meters
- Stop switch – emergency
- Auxiliary output relays (2)
- Auxiliary configurable signal inputs (8) and relay outputs (8)

Electrical
- One, two or three circuit breaker configurations
- 80% rated circuit breakers
- 80% or 100% rated LSI circuit
- breakers
- Battery charger

Enclosure
- Aluminium enclosure Sound Level 1 or Level 2, sandstone or green color
- Aluminium weather protective enclosure with muffler installed, green color

Cooling system
- Shutdown – low coolant level
- Warning – low coolant level
- Extension – coolant drain
- Coolant heater options:
  - <4 ℃ (40 ℉) – cold weather
  - <-18 ℃ (0 ℉) – extreme cold

Exhaust system
- Exhaust connector NPT
- Exhaust muffler mounted

Generator set application
- Base barrier – elevated genset
- Radiator outlet duct adapter

Warranty
- Base warranty – 2 year/1000 hours, Standby
- Base warranty – 1 year/unlimited hours, Prime
- 3 year Standby warranty options
- 5 year Standby warranty options

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Generator set accessories

- Coolant heater
- Battery heater kit
- Engine oil heater
- Remote control displays
- Auxiliary output relays (2)
- Auxiliary configurable signal inputs (8) and relay outputs (8)
- Annunciator – RS485
- Audible alarm
- Remote monitoring device – PowerCommand 500/550
- Battery charger – stand-alone, 12 V
- Circuit breakers
- Enclosure Sound Level 1 to Sound Level 2 upgrade kit
- Base barrier – elevated generator set
- Mufflers – industrial, residential or critical
- Alternator PMG excitation
- Alternator heater

Control system PowerCommand 1.1





PowerCommand control is an integrated generator set control system providing voltage regulation, engine protection, operator interface and isochronous governing (optional). Major features include:

- Battery monitoring and testing features and smart starting control system.
- Standard PCCNet interface to devices such as remote annunciator for NFPA 110 applications.
- Control boards potted for environmental protection.
- Control suitable for operation in ambient temperatures from -40 ℃ to +70 ℃ (-40 ℉ to +158 ℉) and altitudes to 5000 meters (13,000 feet).
- Prototype tested; UL, CSA, and CE compliant.
- InPower™ PC-based service tool available for detailed diagnostics.

Operator/display panel

- Manual off switch
- Alpha-numeric display with pushbutton access for viewing engine and alternator data and providing setup, controls and adjustments (English or international symbols)
- LED lamps indicating generator set running, not in auto, common warning, common shutdown, manual run mode and remote start
- Suitable for operation in ambient temperatures from -40 ℃ to +70 ℃
- Bargraph display (optional)

AC protection

- Over current warning and shutdown
- Over and under voltage shutdown
- Over and under frequency shutdown
- Over excitation (loss of sensing) fault
- Field overload

Engine protection

- Overspeed shutdown
- Low oil pressure warning and shutdown
- High coolant temperature warning and shutdown
- Low coolant level warning or shutdown
- Low coolant temperature warning
- High, low and weak battery voltage warning
- Fail to start (over crank) shutdown
- Fail to crank shutdown
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication
- Low fuel level warning or shutdown

Alternator data

- Line-to-Line and Line-to-neutral AC volts
- 3-phase AC current
- Frequency
- Total kVA

Engine data

- DC voltage
- Lube oil pressure
- Coolant temperature
- Engine speed

Other data

- Generator set model data
- Start attempts, starts, running hours
- Fault history
- RS485 Modbus® interface
- Data logging and fault simulation (requires InPower service tool)

Digital governing (optional)

- Integrated digital electronic isochronous governor
- Temperature dynamic governing

Digital voltage regulation

- Integrated digital electronic voltage regulator
- 2-phase Line-to-Line sensing
- Configurable torque matching

Control functions

- Time delay start and cooldown
- Cycle cranking
- PCCNet interface
- (2) Configurable inputs
- (2) Configurable outputs
- Remote emergency stop
- Automatic Transfer Switch (ATS) control
- Generator set exercise, field adjustable

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Options

- Auxiliary output relays (2)
- Remote annunciator with (3) configurable inputs and (4) configurable outputs
- PMG alternator excitation
- PowerCommand 500/550 for remote monitoring and alarm notification (accessory)
- Auxiliary, configurable signal inputs (8) and configurable relay outputs (8)
- AC output analog meters (bargraph)
  - Color-coded graphical display of:
    - 3-phase AC voltage
    - 3-phase current
    - Frequency
    - kVa
- Remote operator panel
- PowerCommand 2.3 control with AmpSentry protection

Ratings definitions

Emergency Standby Power (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-Time Running Power (LTP):

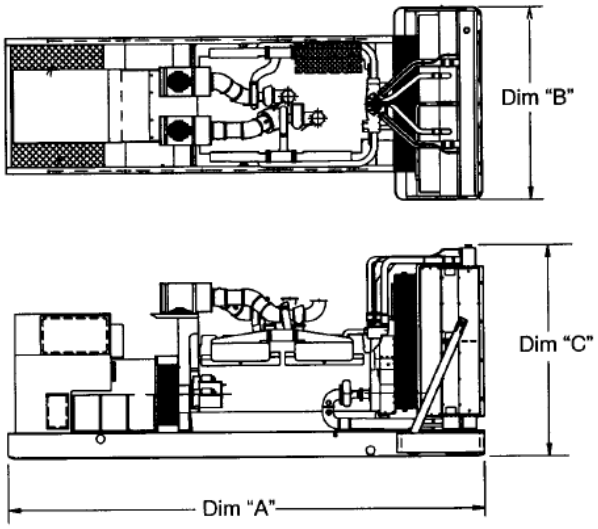
Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.

Prime Power (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base Load (Continuous) Power (COP):

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.



This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

Do not use for installation design

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Model	Dim “A” mm (in.)	Dim “B” mm (in.)	Dim “C” mm (in.)	Set weight*wet kg (lbs.)
Open set				
C50D6C	2482 (98)	965 (38)	1321 (52)	958 (2113)
C60D6C	2482 (98)	965 (38)	1321 (52)	1006 (2217)
C80D6C	2482 (98)	965 (38)	1321 (52)	1054 (2324)
C100D6C	2482 (98)	965 (38)	1321 (52)	1106 (2439)
C125D6C	2482 (98)	965 (38)	1321 (52)	1173 (2586)
Weather protective enclosure				
C50D6C	2482 (98)	1016 (40)	1473 (58)	1039 (2290)
C60D6C	2482 (98)	1016 (40)	1473 (58)	1087 (2396)
C80D6C	2482 (98)	1016 (40)	1473 (58)	1135 (2503)
C100D6C	2482 (98)	1016 (40)	1473 (58)	1187 (2618)
C125D6C	2482 (98)	1016 (40)	1473 (58)	1254 (2765)
Sound attenuated enclosure Level 1				
C50D6C	3016 (119)	1016 (40)	1473 (58)	1221 (2693)
C60D6C	3016 (119)	1016 (40)	1473 (58)	1137 (2507)
C80D6C	3016 (119)	1016 (40)	1473 (58)	1185 (2614)
C100D6C	3016 (119)	1016 (40)	1473 (58)	1237 (2729)
C125D6C	3016 (119)	1016 (40)	1473 (58)	1304 (2876)
Sound attenuated enclosure Level 2				
C50D6C	3456 (136)	1016 (40)	1473 (58)	1228 (2708)
C60D6C	3456 (136)	1016 (40)	1473 (58)	1144 (2522)
C80D6C	3456 (136)	1016 (40)	1473 (58)	1192 (2629)
C100D6C	3456 (136)	1016 (40)	1473 (58)	1244 (2744)
C125D6C	3456 (136)	1016 (40)	1473 (58)	1311 (2891)

* Weights above are average. Actual weight varies with product configuration.

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Codes and standards

Codes or standards compliance may not be available with all model configurations – consult factory for availability.

	This generator set is designed in facilities certified to ISO 9001 and manufactured in facilities certified to ISO 9001 or ISO 9002.		The generator set is available Listed to UL 2200, Stationary Engine Generator Assemblies.
	The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.	**U.S. EPA**	Engine certified to U.S. EPA SI Stationary Emission Regulation 40 CFR, Part 60.
	All low voltage models are CSA certified to product class 4215-01.	**International Building Code**	The generator set is certified to International Building Code (IBC) 2012.

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

For more information contact your local Cummins distributor or visit power.cummins.com

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Generator set data sheet

Model:	C60D6C
Frequency:	60 Hz
Fuel type:	Diesel
KW rating:	60 standby
	54 prime
Emissions level:	EPA Tier 3, Stationary emergency

Exhaust emission data sheet:	EDS-2027
Exhaust emission compliance sheet:	EPA-3034
Sound performance data sheet:	MSP-1301
Cooling performance data sheet:	MCP-1401
Prototype test summary data sheet:	PTS-450

Fuel consumption

	Standby				Prime			
	kW (kVA)				kW (kVA)			
Ratings	60 (75)				54 (68)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	2.20	3.30	4.60	6.10	2.1	3.00	4.20	5.50
L/hr	8.33	12.49	17.41	23.09	7.95	11.36	15.90	20.82

Engine

	Standby rating	Prime rating
Engine manufacturer	Cummins Inc.	
Engine model	QSB5-G13	
Configuration	Cast iron, in-line, 4 cylinder	
Aspiration	Turbocharged and charge air cooled	
Gross engine power output, kWm (bhp)	129 (173)	113 (152)
BMEP at set rated load, kPa (psi)	1205 (174.7)	1083 (157.1)
Bore, mm (in)	107 (4.21)	
Stroke, mm (in)	124 (4.88)	
Rated speed, rpm	1800	
Piston speed, m/s (ft/min)	7.44 (1464)	
Compression ratio	17.3:1	
Lube oil capacity, L (qt)	12.2 (12.9)	
Overspeed limit, rpm	2250	

Fuel flow

Maximum fuel flow, L/hr (US gph)	133 (35.0)
Maximum fuel inlet restriction with clean filter, mm Hg (in Hg)	127 (5.0)

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Air

	Standby rating	Prime rating
Combustion air, m3/min (scfm)	9.63 (340)	9.34 (330)
Maximum air cleaner restriction with clean filter, kPa (in H2O)	1.25 (5)	

Exhaust

Exhaust flow at set rated load, m^3/min (cfm)	20 (696)	18.52 (654)
Exhaust temperature, °C (°F)	370 (697)	341 (645)
Maximum back pressure, kPa (in H_2O)	10 (40.18)	10(40.18)
Available exhaust back pressure with CPG sound level 2 enclosure muffler, kPa (in H_2O)	3.5 (14.1)	4.5 (18.1)
Available exhaust back pressure with CPG weather enclosure muffler, kPa (in H_2O)	4.5 (18.1)	5 (20.1)

Standard set-mounted radiator cooling

Ambient design, ° C (° F)	50 (122)	
Fan load, kW_m (HP)	5.22 (7)	
Coolant capacity (with radiator), L (US Gal)	16 (4.2)	
Cooling system air flow, m^3/min (scfm)	218.04 (7700)	
Total heat rejection, MJ/min (Btu/min)	8.96 (8491)	8.38 (7943)
Maximum cooling air flow static restriction, kPa (in H_2O)	0.12 (0.5)	

Weight[2]

Unit wet weight kgs (lbs)	1006 (2217)

Notes:

[1] For non-standard remote installations contact your local Cummins Power Generation representative.

[2] Weights represent a set with standard features. See outline drawing for weights of other configurations.

Derating factors

Standby	Engine power available to 3581 m (11750 ft) and ambient temperatures up to 40° C (104° F). Above these conditions, derate at 2.2% per 300 m (1000 ft) and 16.1% per 10° C (18° F)
Prime	Engine power available to 4343 m (14250 ft) and ambient temperatures up to 40° C (104° F). Above these conditions, derate at 2.3% per 300 m (1000 ft) and 18.8% per 10° C (18° F)

Ratings definitions

Emergency standby power (ESP):	Limited-time running power (LTP):	Prime power (PRP):	Base load (continuous) power (COP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

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Alternator data

Standard Alternators	Single phase[2]		Three phase[1]				
Maximum temperature rise above 40 °C ambient	120 °C	120 °C	120 °C	120 °C	120 °C	120 °C	120 °C
Feature code	BB88-2[3]	BB90-2	B946-2	B986-2	B943-2	B952-2	BB86-2
Alternator data sheet number	ADS-205	ADS-204	ADS-204	ADS-204	ADS-204	ADS-202	ADS-204
Voltage ranges	120/240	120/240	120/208	120/240	277/480	347/600	127/220
Voltage feature code	R104-2	R104-2	R098-2	R106-2	R002-2	R114-2	R020-2
Surge kW	69.3	71.0	73.3	73.3	73.9	72.6	73.5
Motor starting kVA (at 90% sustained voltage) Shunt			231	231	231	188	231
Motor starting kVA (at 90% sustained voltage) PMG			272	272	272	221	272
Full load current amps at standby rating	250	250	208	181	90	72	197

Alternator data

Standard Alternators	Single phase[2]		Three phase[1]				
Maximum temperature rise above 40 °C ambient	105 °C	105 °C	105 °C	105 °C	105 °C	105 °C	105 °C
Feature code	BB87-2[3]	BB91-2	BB93-2	BB94-2	BB95-2	BB92-2	BB85-2
Alternator data sheet number	ADS-207	ADS-205	ADS-204	ADS-204	ADS-204	ADS-204	ADS-204
Voltage ranges	120/240	120/240	120/208	120/240	277/480	347/600	127/220
Voltage feature code	R104-2	R104-2	R098-2	R106-2	R002-2	R114-2	R020-2
Surge kW	70.2	71.7	73.3	73.3	73.9	73.9	73.5
Motor starting kVA (at 90% sustained voltage) Shunt			231	231	231	231	231
Motor starting kVA (at 90% sustained voltage) PMG			272	272	272	272	272
Full load current amps at standby rating	250	250	208	181	90	72	197

Notes:
[1] Single phase power can be taken from a three phase generator set at up to 2/3 set rated 3-phase kW at 1.0 power factor
[2] Full single phase output up to full set rated 3-phase kW at 1.0 power factor
[3] Reconnectable option

Formulas for calculating full load currents:

Three phase output

$$\frac{kW \times 1000}{Voltage \times 1.73 \times 0.8}$$

Single phase output

$$\frac{kW \times SinglePhaseFactor \times 1000}{Voltage}$$

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

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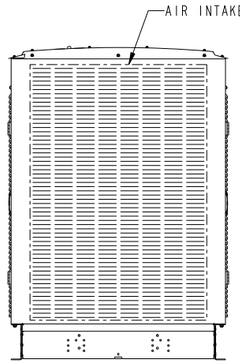
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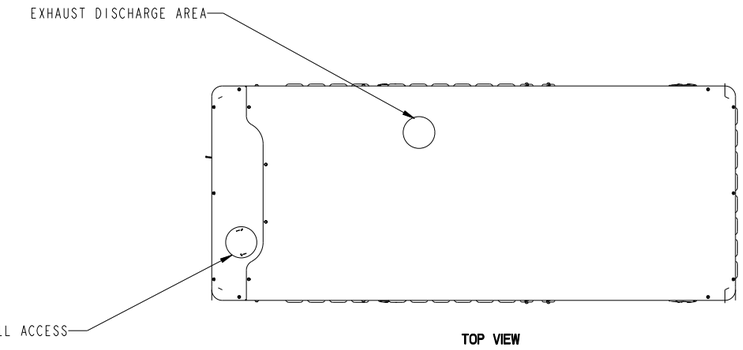
PTC® Creo® Parametric

REL NO	LTR	NO	REVISION	DRN	CKD	APVD	DATE
ECO-152551	A	1	PRODUCTION_RELEASE	CG	NK	M_WICKMANN	15MAY15

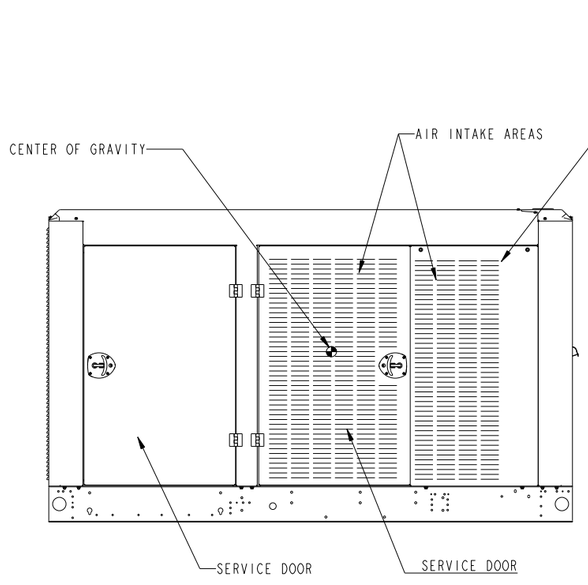
NOTES:

1. DIM [] IN INCHES
2. WHEN THE HOUSING INSTALLED ON AN OPEN GENERATOR SET, THE TOTAL WEIGHT WILL INCREASE BY 81 KG (179 LBS). THIS INCLUDES THE MUFFLER.
3. THE CENTER OF GRAVITY(CG) OF THE GENERATOR SET WHEN EQUIPPED WITH THIS HOUSING SHIFTS APPROXIMATELY 19mm (0.75 INCH) TOWARDS THE AIR DISCHARGE END OF THE HOUSING AND 39mm (1.55 INCH) HIGHER FROM THE GROUND. COMPARED TO THE EQUIVALENT NON-HOUSED PRODUCT WITH THE F179 SKID. SEE HOUSING READY SKID BASE OUTLINE DRAWING FOR CG LOCATION OF NON HOUSED PRODUCT.

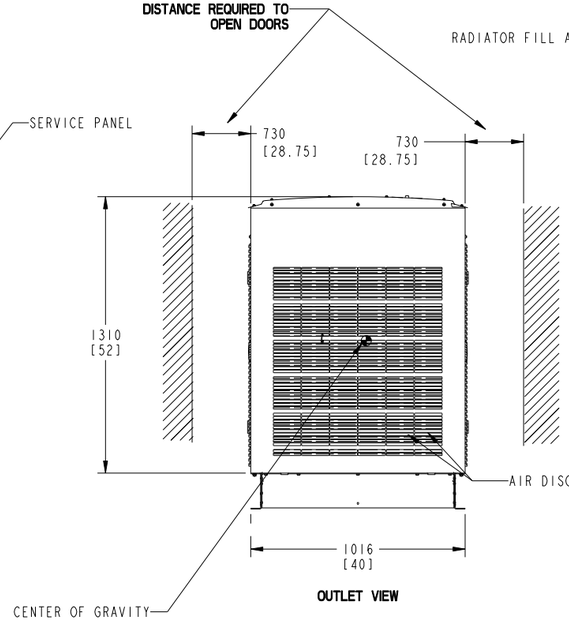




TOP VIEW



RIGHT SIDE VIEW



OUTLET VIEW

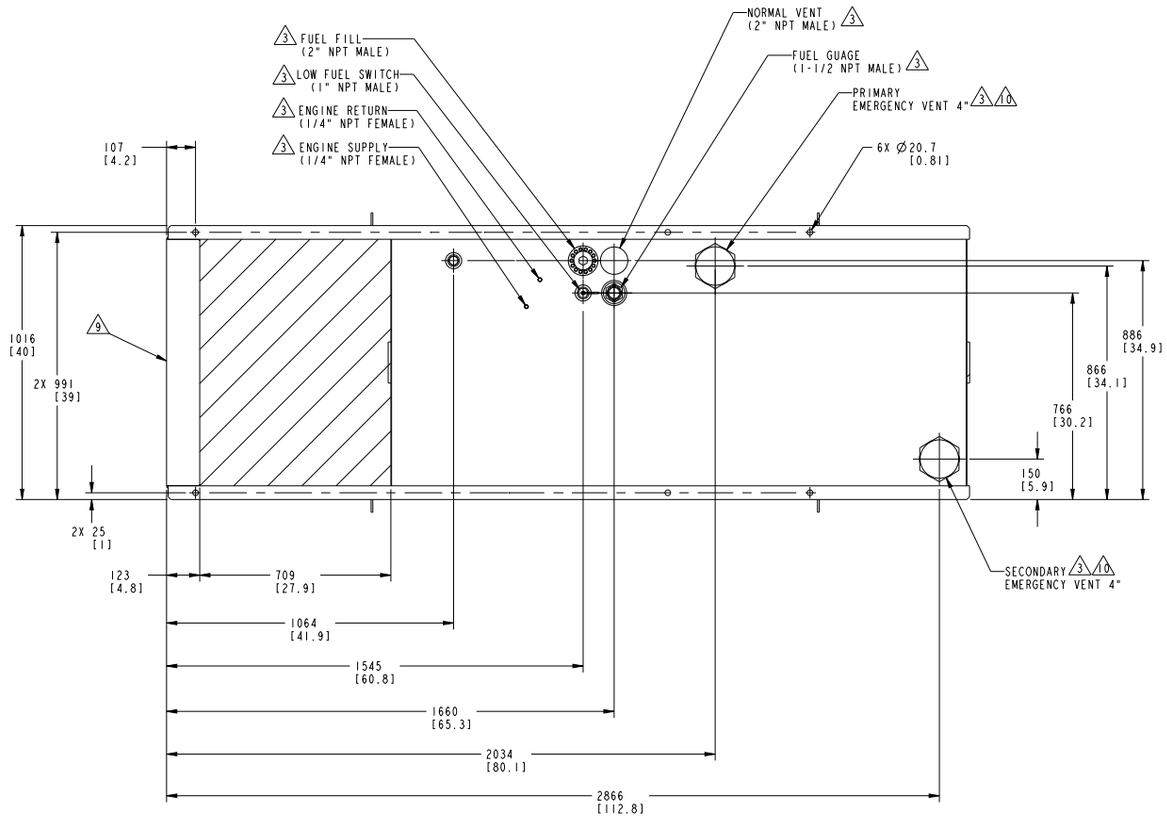
LEFT SIDE VIEW

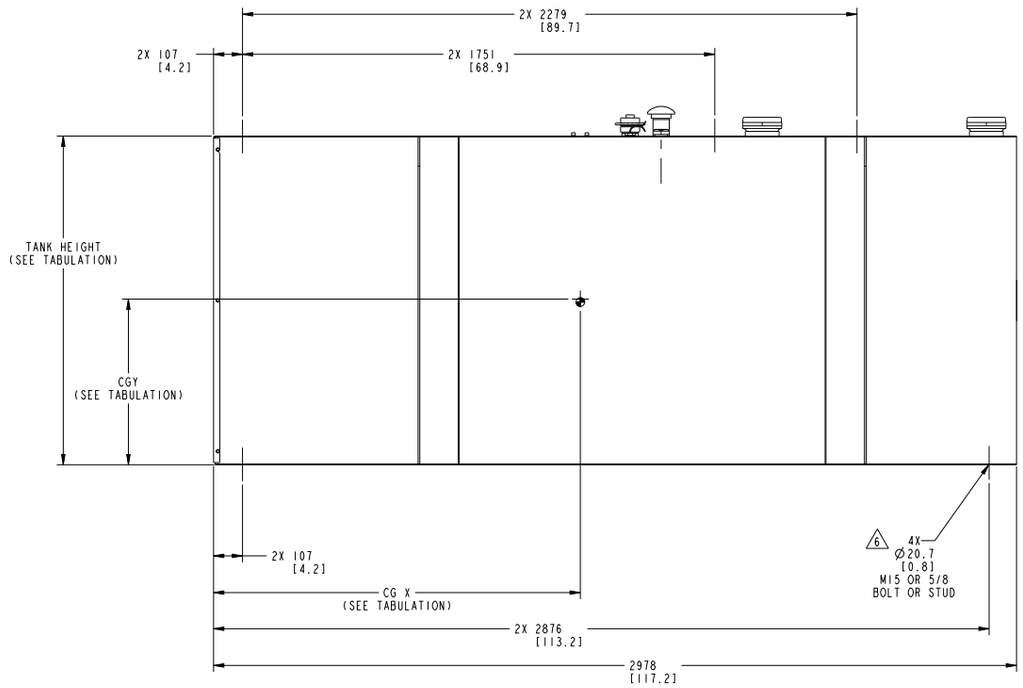
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS			SIM TO	DRN C_GADE	CUMMINS POWER GENERATION
DIM: X ±1, .X ±0.8, .XX± 0.38 — HOLE: 0.00- 4.99 +0.15/-0.08; 5.00- 9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13			DO NOT SCALE PRINT	CKD N_KASIBHOTLA	
			- CONFIDENTIAL - PROPERTY OF CUMMINS POWER GENERATION GROUP	APVD M_WICKMANN	OUTLINE,ENCLOSURE
				DATE 14MAY15	SITE CODE
ANG TOL: ± 1.0°	SCALE: ~3/32		FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5M-1994	FIRST USED ON ARROW	PGF
					DWG SIZE D — A051P453 — SHEET 1 OF 1 — DWG REV A

Drawing Name: A051P454 Revision: A
Part Name: A051P453 Revision: A
Sheet 1 of 2

PTC® Creo® Parametric

REL NO	REV	NO	REVISION	DRN	CKD	APVD	DATE
ECO-174944	C	1	ZONE D-2: 4" WAS 3"	CJF	MW	M WINGFIELD	23JAN18
		2	ZONE C-2: 4" WAS 3"	CJF	MW	M WINGFIELD	23JAN18





NOTES:

1. TANKS ARE UL142 LISTED. SECONDARY CONTAINMENT FUEL TANK. REFER TO TANK LABELS AND LOCAL CODE TO DETERMINE VENTING REQUIREMENTS FOR BOTH COMPARTMENTS.
2. SUBBASE FUEL TANK MOUNTING. EXCESSIVE TWISTING OF THE FUEL TANK MAY RESULT IN STRUCTURAL FAILURE OF THE TANK. TO ENSURE THE INSTALLATION DOES NOT EXCESSIVELY TWIST THE FUEL TANK, THE FOLLOWING PROCEDURE MUST BE OBSERVED:
   - 2.1 REFER TO APPLICATION MANUAL T030 FOR GENERAL SET MOUNTING GUIDELINES.
   - 2.2 AFTER PLACING SET ON FOUNDATION, VERIFY ALL FOUR MOUNTING PADS CONTACT FOUNDATION.
   - 2.3 THERE ARE SHIMS ATTACHED TO EACH FUEL TANK. THESE ARE INTENDED TO FILL ANY GAP BETWEEN THE MOUNTING PADS AND FOUNDATION.
   - 2.4 INSERT THE MAXIMUM HEIGHT STACK OF SHIMS THAT WILL SLIDE INTO THE GAP.
   - 2.5 TIGHTEN TANK HOLD DOWN MOUNTING FASTENERS.
3. INDICATES PIPE SIZE OF FEATURE OR OPTION INDICATED.
4. DIMENSIONS IN [ ] ARE IN INCHES.
5. FOR IBC SEISMIC CERTIFIED INSTALLATIONS, SEE GENSET IBC SEISMIC INSTALLATION REQUIREMENTS DRAWING.
6. FUEL TANK HAS A FLANGE THICKNESS OF UP TO 10 mm [0.394 in], ALLOW EXTRA LENGTH ON HARDWARE FOR UNEVENESS OF MOUNTING SURFACE.
7. FUEL TANK PERIMETER IS SHOWN. FOUNDATION SHOULD BE EXTENDED BEYOND THIS PERIMETER. SEE (T030) APPLICATION MANUAL - (SEE SHEET 3).
8. INSTALLATION & REMOVAL LIFTING AND SERVICE ACCESS CLEARANCE (SUGGESTED MINIMUM) - (SEE SHEET 3).
9. REMOVABLE STUB-UP ACCESS PANEL.
10. MAINTAIN MIN 51 mm [2 in] CLEARANCE ABOVE E-VENT.
11. WEIGHT AND CENTER OF GRAVITY INFORMATION IS ESTIMATED AND CHANGES WITH TANK FEATURE INSTALLATION.

PART NUMBER IDENTIFICATION		
GENSET MODEL APPLICATION	TANK FEATURE CODE/RUN TIME	
	C319-2	C320-2
	24 HR	48 HR
C50 D6C	A053H409	A053H409
C60 D6C	A053H409	A053H411
C80 D6C	A053H409	A053H411
C100 D6C	A053H409	A053H412
C125 D6C	A053H409	A053H412

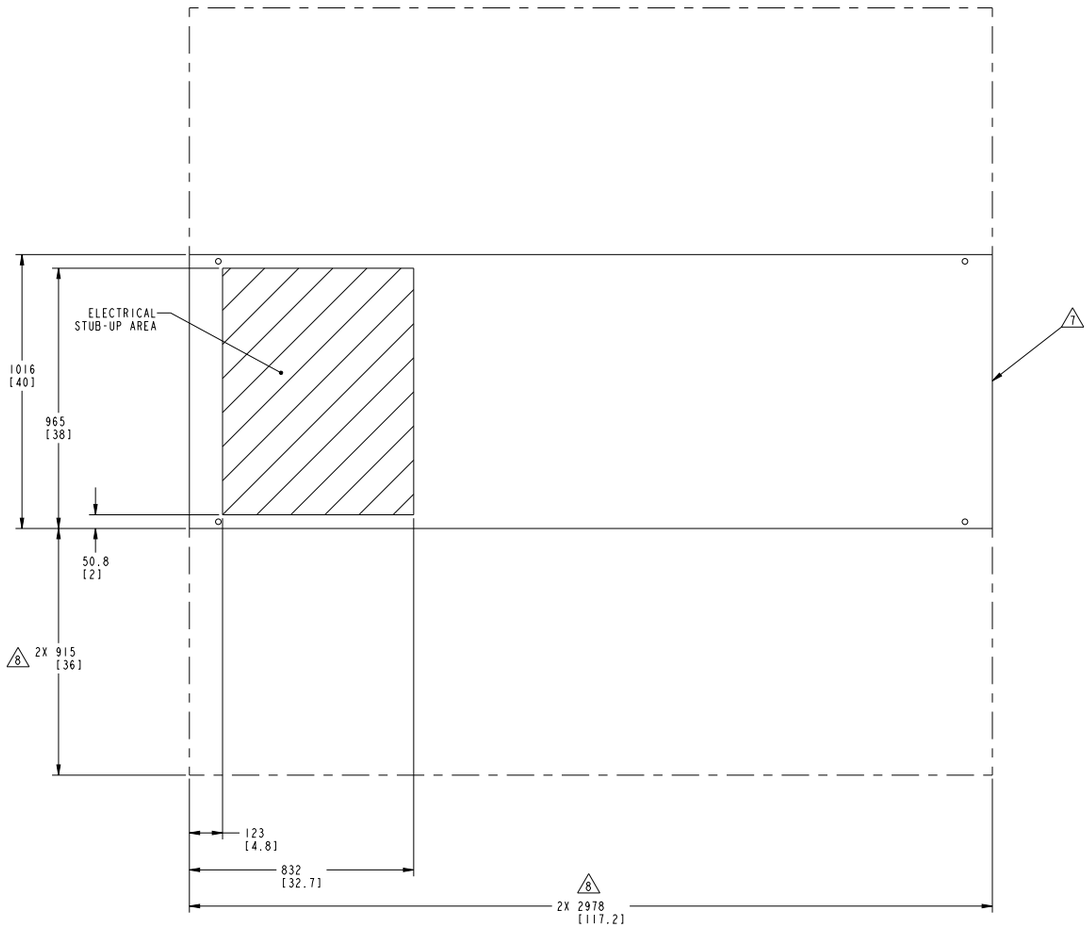
TABULATION										
TANK NUMBER	TANK HEIGHT	TANK VOLUME-LITER [GAL]		WEIGHT kg [lb]		CG_X		CG_Y	
		TOTAL (EST)	USABLE	MIN	MAX	MIN	MAX	MIN	MAX
A053H409	635 [25]	985 [260]	978 [258]	367 [809]	1199 [2641]	1736 [68]	1852 [73]	299 [11.8]	312 [12.3]
A053H411	838 [33]	1338 [353]	1327 [350]	439 [966]	1567 [3451]	1736 [68]	1852 [73]	398 [15.7]	413 [16.3]
A053H412	1219 [48]	1994 [526]	1971 [520]	668 [1471]	2344 [5163]	1736 [68]	1852 [73]	584 [23.0]	602 [23.7]

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN MILLIMETERS
DIM: X ±1; .X ±0.8; .XX± 0.38
SCALE: 0.00- 4.99 +0.15/-0.08; 5.00- 9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13
ANG TOL ± 1.0° | SCALE 1:8
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DRN D HOFMEISTER | CKD D HOFMEISTER | APVD M JAWALE | DATE 01FEB16
FOR INTERPRETATION OF DIMENSIONS, TOLERANCES AND SYMBOLS REFER TO ASME Y14.5-2009
FIRST USED ON ARROW
CUMMINS POWER GENERATION
SITE CODE PGF
OUTLINE, TANK BASIC
DWG SIZE E | A054T898 | CAD SHEET 1 OF 3

Drawing Name: A054T899 Revision: C
Part Name: A054T898 Revision: C
ECO-174944 Sheet 1 of 4

PTC® Creo® Parametric

REL NO	REV	NO	REVISION	DRN	CKD	APVD	DATE
ECO-174944	C	--	-----	CJF	MW	M WINGFIELD	23JAN18



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS

DIM: X ±1 | .X ±0.8 | .XX± 0.38

ROUND: 0.00- 4.99 +0.15/-0.08 | 5.00- 9.99 +0.20/-0.10 | 10.00-17.49 +0.25/-0.13 | 17.50-24.99 +0.30/-0.13

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SCALE 1:8

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SIZE TO .

DO NOT SCALE PRINT

FOR INTERPRETATION OF DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009

FIRST USED ON ARROW

DRN D HOFMEISTER

CKD D HOFMEISTER

APVD M JAWALE

DATE 01FEB16

SITE CODE PGF

CUMMINS POWER GENERATION

OUTLINE, TANK

BASIC

DWG NO E A054T898

CAD SHEET 3 of 3

Drawing Name: A054T899 Revision: C
Part Name: A054T898 Revision: C
ECO-174944 Sheet 3 of 4

Specification sheet

OTEC Transfer Switch Open Transition

40 – 1200 amp



Description

OTEC transfer switches are designed for operation and switching of electrical loads between primary power and Standby generator sets. They are suitable for use in emergency, legally required, and optional Standby applications. The switches monitor both power sources, signal generator set startup, automatically transfer power, and return the load to the primary power source once a stable utility is available. The fully integrated controller is designed for practical functionality, with LED indicators and digital pushbuttons for ease of operator use.

Features

Microprocessor control - Easy-to-use, standard control. LEDs display transfer switch status; pushbuttons allow operator to activate control test, exercise timing and transfer mode.

Programmed transition – Open transition timing can be adjusted to completely disconnect the load from both sources for a programmed time period, as recommended by NEMA MG-1 for transfer of inductive loads.

Advanced transfer switch mechanism – Unique bi-directional linear actuator provides virtually frictionfree, constant force, straight-line transfer switch action during automatic operation.

Manual operation - Manual operating handles, shielded termination, and over-center contact mechanisms allow effective manual operation under deenergized conditions.

Positive interlocking - Mechanical and electrical interlocking prevent source-to-source connection through the power or control wiring.

Main contacts - Heavy-duty silver alloy contacts and multi-leaf arc chutes are rated for motor loads or total system load transfer. They require no routine contact maintenance. Continuous load current not to exceed 100% of switch rating and Tungsten loads not to exceed 30% of switch rating.

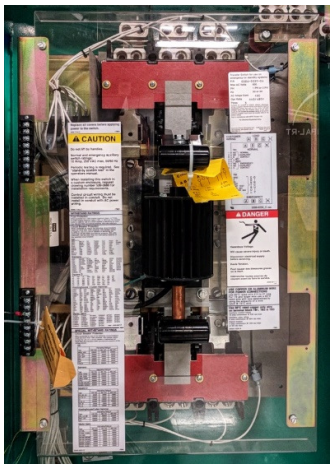
Easy service/access - Single-plug harness connection and compatible terminal markings simplify servicing. Access space is ample. Door-mounted controls are field-programmable; no tool is required.

Complete product line - Cummins offers a wide range of equipment, accessories and services to suit virtually any backup power application.

Warranty and service - Products are backed by a comprehensive warranty and a worldwide network of distributors with factory-trained service technicians.

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Transfer switch mechanism



- Transfer switch mechanism is electrically operated and mechanically held in the Source 1 and Source 2 positions. The transfer switch incorporates electrical and mechanical interlocks to prevent inadvertent interconnection of the sources.
- Independent break-before-make action is used for both 3-pole and 4-pole/switched neutral switches. This design allows use of sync check operation when required, or control of the operating speed of the transfer switch for proper transfer of motor and rectifier-based loads (programmed transition feature).
- True 4-pole switching allows for proper ground (earth) fault sensing and consistent, reliable operation for the life of the transfer switch. The neutral poles of the transfer switch have the same ratings as the phase poles and are operated by a common crossbar mechanism, eliminating the possibility of incorrect neutral operation at any point in the operating cycle, or due to failure of a neutral operator.
- Electrical interlocks prevent simultaneous closing signals to normal and emergency contacts and interconnection of normal and emergency sources through the control wiring
- High pressure silver alloy contacts resist burning and pitting. Separate arcing surfaces further protect the main contacts. Contact wear is reduced by multiple leaf arc chutes that cool and quench the arcs. Barriers separate the phases to prevent interphase flashover. A transparent protective cover allows visual inspection while inhibiting inadvertent contact with energized components.
- Switch mechanism, including contact assemblies, is third-party certified to verify suitability for applications requiring high endurance switching capability for the life of the transfer switch. Withstand and closing ratings are validated using the same set of contacts, further demonstrating the robust nature of the design.

Specifications

Voltage rating	Transfer switches rated from 40 A through 1200 A are rated up to 600 VAC, 50 or 60 Hz.
Arc interruption	Multiple leaf arc chutes cool and quench the arcs. Barriers prevent interphase flashover.
Neutral bar	A full current-rated neutral bar with lugs is standard on enclosed 3-pole transfer switches.
Auxiliary contacts	Two contacts (one for each source) are provided for customer use. Wired to terminal block for easy access. Rated at 10A Continuous and 250 VAC maximum.
Operating temperature	-22 ˚F (-30 ˚C) to 140 ˚F (60 ˚C)
Storage temperature	-40 ˚F (-40 ˚C) to 140 ˚F (60 ˚C)
Humidity	Up to 95% relative, non-condensing
Altitude	Up to 10,000 ft (3,000 m) without derating
Total transfer time (source-to-source)	Will not exceed 6 cycles at 60 Hz with normal voltage applied to the actuator and without delayed transition enabled.
Manual operation handles	Transfer switches are equipped with permanently attached operating handles and quickbreak, quick-make contact mechanisms suitable for manual operation under de-energized conditions.

Transition Modes

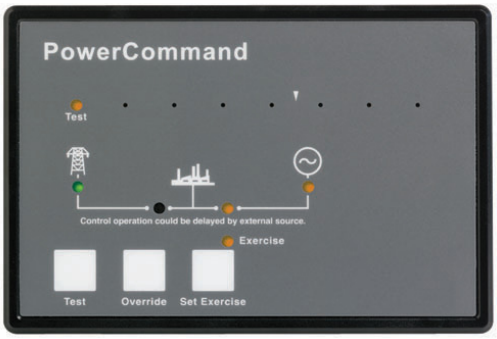
Open transition/programmed – Controls the time required for the device to switch from source to source, so that the load-generated voltages decay to a safe level before connecting to an energized source. Recommended by NEMA MG-1 to prevent nuisance tripping breakers and load damage. Adjustable 0-10 seconds, default 0 seconds.

Open transition/in-phase – Initiates open transition transfer when in-phase monitor senses both sources are in phase. Operates in a break-before-make sequence. Includes ability to enable programmed transition as a backup. If sources are not in phase within 120 seconds, the system will transfer using programmed transition.

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Microprocessor control

- Simple, easy-to-use control provides transfer switch information and operator controls
- LED lamps for source availability and source connected indication, exercise mode, and test mode. LED status lamps also provided for control set-up and configuration.
- Pushbutton controls for initiating test, overriding time delays and setting exercise time.
- Field-configurable for in-phase open or programmed open transition.
- Integral exerciser clock
- Control is prototype-tested to withstand voltage surges per EN60947-6-1.
- Gold-flashed generator start contacts



Control functions

Voltage sensing: All phases on the normal source and single phase on generator source. Normal Source Pickup: adjustable 90-95%, Dropout: adjustable 70-90% of nominal voltage; Generator Source Pickup: 90%, dropout: 75% of nominal voltage.

Frequency sensing: Generator Source Pickup: 90% of nominal frequency; Dropout: 75% of nominal frequency.

Exerciser clock: Switch is furnished with an integral engine exerciser configurable for operation on a 7, 14, 21, or 28-day cycle with a fixed exercise period duration of 20 minutes. A 12-hr exerciser time offset allows for the convenient setting of exercise time without the need to activate the timer at the exact time that you need to schedule the generator exercise for. Software selectable capability allows for the exercising of the generator with or without load.

Time-delay functions

Engine start: Prevents nuisance genset starts due to momentary power system variation or loss. Adjustable: 0-10 seconds; default: 3 seconds

Transfer normal to emergency: Allows genset to stabilize before application of load. Prevents power interruption if normal source variation or loss is momentary. Allows staggered transfer of loads in multiple transfer switch systems. Adjustable 0-300 seconds, default 5 seconds.

Retransfer emergency to normal: Allows the utility to stabilize before retransfer of load. Prevents needless power interruption if return of normal source is momentary. Allows staggered transfer of loads in multiple transfer switch systems. Adjustable 0-30 minutes, default 10 minutes.

Genset stop: Maintains availability of the genset for immediate reconnection in the event that the normal source fails shortly after transfer. Allows gradual genset cool down by running unloaded. Adjustable 0-30 minutes, default 10 minutes.

Delayed (programmed) transition: Controls the speed of operation of the transfer switch power contacts to allow load generated voltages from inductive devices to decay prior to connecting a live source. Adjustable 0-10 seconds, default 0 seconds.

Elevator signal: Provides a relay output contact for the elevator signal relay (load disconnect). The signal can also be configured to provide a post transfer delay of the same duration. Adjustable: 0-300 seconds (requires optional elevator signal relay for use).

Options

Elevator signal relay: Provides a relay output contact for the signal relay function

Programmable exerciser clock: Provides a fully-programmable 7-day clock to provide greater flexibility in scheduling exercise periods than standard integral exerciser. Time-of-day setting feature operates generator during periods of high utility rates.

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UL withstand and closing ratings

The transfer switches listed below must be protected by circuit breakers or fuses. Referenced drawings include detailed listings of specific breakers or fuse types that must be used with the respective transfer switches. Consult with your distributor/dealer to obtain the necessary drawings. Withstand and Closing Ratings (WCR) are stated in symmetrical RMS amperes..

Transfer switch ampere	MCCB protection			Special circuit breaker protection		
	WCR @ volts max with specific manufacturers MCCBs	Max MCCB ratings	Drawing reference	With specific current limiting breakers (CLB)	Max CLB rating	Drawing reference
40, 70, 125 3-pole	14,000 at 600	225 A	A050J441	200,000 @ 600	225 A	A048J566
40, 70, 125 4-pole	30,000 at 600	400 A	A048E949	200,000 @ 600	400 A	A051D533
150, 225, 260	30,000 at 600	400 A	A048E949	200,000 @ 600	400 A	A051D533
300, 400, 600	65,000 at 600	1200 A	A056M829	200,000 @ 600	1200 A	A048J564
800, 1000	65,000 @ 480 50,000 @ 600	1400 A	A056M821	200,000 @ 600	1400 A	A048J562
1200	85,000 @ 480 65,000 @ 600	1600 A	A056M825	200,000 @ 600	1600 A	A048P186

Fuse Protection

Transfer switch ampere	WCR @ volts max. with current limiting fuses	Max fuse, size and type	Drawing reference
40, 70, 125 3- and 4-pole	200,000 at 600	200 A Class, J, RK1, RK5, T	A050J441
150, 225, 260	200,000 at 600	1200 A Class L or T, or 600 A class J, RK1, RK5	A048E949
300, 400, 600	200,000 at 600	1200 A Class L or T, or 600 A Class, J, RK1, RK5	A056M829
800, 1000	200,000 at 600	2000 A Class L or 1200 A class T or 600 A class J, RK1, RK5	A056M821
1200	200,000 at 600	2000 A Class L or 1200 A class T or 600 A class J, RK1, RK5	A056M825

3-cycle ratings

Transfer switch ampere	WCR @ volts max 3 cycle rating	Max MCCB rating	Drawing reference
300, 400, 600	25,000 at 600	1200 A	A056M829
800, 1000	35,000 at 600	1400 A	A056M821
1200	42,000 at 600 50,000 at 480	1600 A	A056M825

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Enclosures

The transfer switch and control are wall-mounted in a key-locking enclosure. Wire bend space complies with 2008 NEC.

Dimensions - transfer switch in UL type 1 enclosure

Amp rating	Height		Width		Depth				Weight		Outline drawing
					Door closed		Door open				
	in	mm	in	mm	in	mm	in	mm	lb	kg	
40, 70, 125 3-pole	27.0	686	20.5	521	12.0	305	31.5	800	82	37	0310-0544
40, 70, 125 4-pole	35.5	902	26.0	660	16.0	406	41.0	1042	165	75	0500-4896
150, 225	35.5	902	26.0	660	16.0	406	41.0	1042	165	75	0310-0414
260	43.5	1105	28.5	724	16.0	406	43.0	1093	170	77	0310-0540
300, 400, 600	54.0	1372	25.5	648	18.0	457	42.0	1067	225	102	0310-1307
800, 1000	68.0	1727	30.0	762	19.5	495	48.5	1232	360	163	0310-0417
1200	90.0	2286	39.0	991	27.0	698	63.0	1600	730	331	A030L411

Dimensions - transfer switch in UL type 3R, 4, 4x, or 12 enclosure

Amp rating	Height		Width		Depth				Weight		Cabinet type	Outline drawing
					Door closed		Door open					
	in	mm	in	mm	in	mm	in	mm	lb	kg		
40, 70, 125 3-pole	34.0	864	26.5	673	12.5	318	36.5	927	125	57	3R, 12	0310-0453
											4	0310-0445
	46.0	1168	32.0	813	16.0	406	46.0	1168	255	102	4X	0500-4184
40, 70, 125 4-pole	42.5	1080	30.5	775	16.0	406	44.0	1118	215	97	3R, 12	0500-4896
											4	0500-4896
	46.0	1168	32.0	813	16.0	406	46.0	1168	215	102	4X	0500-4184
150, 225	42.5	1080	30.5	775	16.0	406	44.0	1118	215	97	3R, 12	0310-0453
											4	0310-0446
	46.0	1168	32.0	813	16.0	406	46.	1168	255	102	4X	0500-4184
260	46.0	1168	32.0	813	16.0	406	46.0	1168	255	102	3R, 12	0310-0455
											4	0310-0447
											4X	0500-4184
300, 400, 600	59.0	1499	27.5	699	16.5	419	41.5	1054	275	125	3R, 12	0310-1315
											4	0310-1316
	73.5	1867	32.5	826	19.5	495	49.5	1257	410	186	4X	0500-4185
800, 1000	73.5	1867	32.5	826	19.5	495	49.5	1257	410	186	3R, 12	0310-0457
											4	0310-0449
											4X	0500-4185
1200	90.0	2286	39.0	991	27.0	698	63.0	1600	730	331	3R, 12	A030L411
											4, 4X	A041N370

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Transfer switch lug capacities

All lugs 90˚C rated and accept copper or aluminum wire unless indicated otherwise.

Transfer switch ampere	Cables per phase	Size
40, 70, 125 3-pole	1	#12 AWG-2/0
40 4-pole	1	#12 AWG-2/0
70, 125 4-pole	1	#6 AWG - 300 MCM
150, 225	1	#6 AWG - 300 MCM
260	1	#6 AWG - 400 MCM
300, 400	2	One accepts 3/0 AWG - 600 MCM and One #4 AWG - 250 MCM
600	2	250 - 500 MCM
800, 1000	4	250 - 500 MCM
1200	4	#2 AWG to 600 MCM standard (feature N045) 1/0 AWG to 750 MCM optional (feature N066) Compression Lug Adapter optional (feature N032)

Certification

All switches are UL 1008 Listed with UL Type Rated cabinets and UL Listed CU-AL terminals.

All switches are certified to CSA 282 Emergency Electrical Power Supply for Buildings, up to 600 VAC.

Suitable for use in emergency, legally required and Standby applications per NEC 700, 701 and 702.

All switches comply with NFPA 70, 99 and 110 (Level 1).

All switches comply with NEMA ICS 10.

All switches comply with IEEE 446 Recommended Practice for Emergency and Standby Power Systems.

This transfer switch is designed and manufactured in facilities certified to ISO9001.

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Submittal detail

Amperage ratings

- 40
- 70
- 125
- 150
- 225
- 260
- 300
- 400
- 600
- 800
- 1000
- 1200

Voltage ratings

- R020 120
- R038 190
- R021 208
- R022 220
- R023 240
- R024 380
- R025 416
- R035 440
- R026 480
- R027 600

Pole configuration

- A028 Poles - 3 (solid neutral)
- A029 Poles - 4 (switched neutral)

Frequency

- A044 60 Hertz
- A045 50 Hertz

Application

- A035 Utility-to-genset

System options

- A041 Single phase, 2-wire or 3-wire
- A042 Three phase, 3-wire or 4-wire

Enclosure

- B001 Type 1: general purpose indoor (similar to IEC
- Type IP30)
- B002 Type 3R: intended for outdoor use, provides some protection from dirt, rain and snow (similar to IEC Type IP34)
- B003 Type 4: indoor or outdoor use, provides some protection from wind-blown dust and water spray (similar to IEC Type IP65)
- B010 Type 12: indoor use, some protection from dust (similar to IEC Type IP61)
- B025 Type 4X: stainless steel, indoor or outdoor use, provides some protection from corrosion (similar to IEC Type IP65)

Standards

- A046 UL 1008/CSA certification
- A080 Seismic certification

Control voltage

- M033 12V, Genset starting voltage
- M034 24V, Genset starting voltage

Control options

- J030 External exercise clock
- M032 Elevator signal relay

Battery chargers

- K001 2 Amps, 12/24 Volts
- KB59 15 Amps, 12 Volts
- KB60 12 Amps, 24 Volts

Auxiliary relays

Relays are UL Listed and factory installed. All relays provide (2) normally closed isolated contacts rated 10A @ 600 VAC. Relay terminals accept (1) 18 gauge to (2) 12 gauge wires per terminal.

- L101 24 VDC coil - installed, not wired (for customer use).
- L102 24 VDC coil - emergency position – relay energized when switch is in source 2 (emergency) position.
- L103 24 VDC coil - normal position - relay energized when switch is in source 1 (normal) position
- L201 12 VDC coil installed, not wired (for customer use)
- L202 12 VDC coil - emergency position – relay energized when switch is in source 2 (emergency) position
- L203 12 VDC coil - normal position - relay energized when switch is in source 1 (normal) position

Miscellaneous options

- C027 Cover - guard
- M003 Terminal block - 30 points (not wired)

Optional lug kits

- N032 Lug adapters, compression, ½ stab (1200A only)
- N045 Cable lugs, mechanical, 600 MCM, 4 per pole (1200A only)
- N066 Cable lugs, mechanical, 750 MCM, 4 per pole (1200A only)

Warranty

- G009 1 year comprehensive
- G004 2 year comprehensive
- G006 5 year basic
- G007 5 year comprehensive
- G008 10 year major components

Shipping

- A051 Packing – export box (800-1000 A)

Accessories

- AC-170 Accessories specifications sheet

Specifications are subject to change without notice.

For more information contact your local Cummins distributor or visit power.cummins.com

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S-1464 (06/18)

Pro/ENGINEER

REL NO	LTR	NO	REVISION	DRN	CKD	APVD	DATE
ECO-104136	F	1	REDRAWN IN PRO-E 2D	NVB	LJY	L.SMITH	12OCT11
		2	ZONE C2; CHG NOTES 6 & 7	NVB	LJY	L.SMITH	12OCT11
		3	ZONE C4; RMV 4 RECTANGULAR FEATURES	NVB	LJY	L.SMITH	12OCT11

NOTES:

1. APPROX. WEIGHT: 82 LBS
   MASS: 37 kg

2. DIMENSIONS IN ( ) ARE MILLIMETERS.

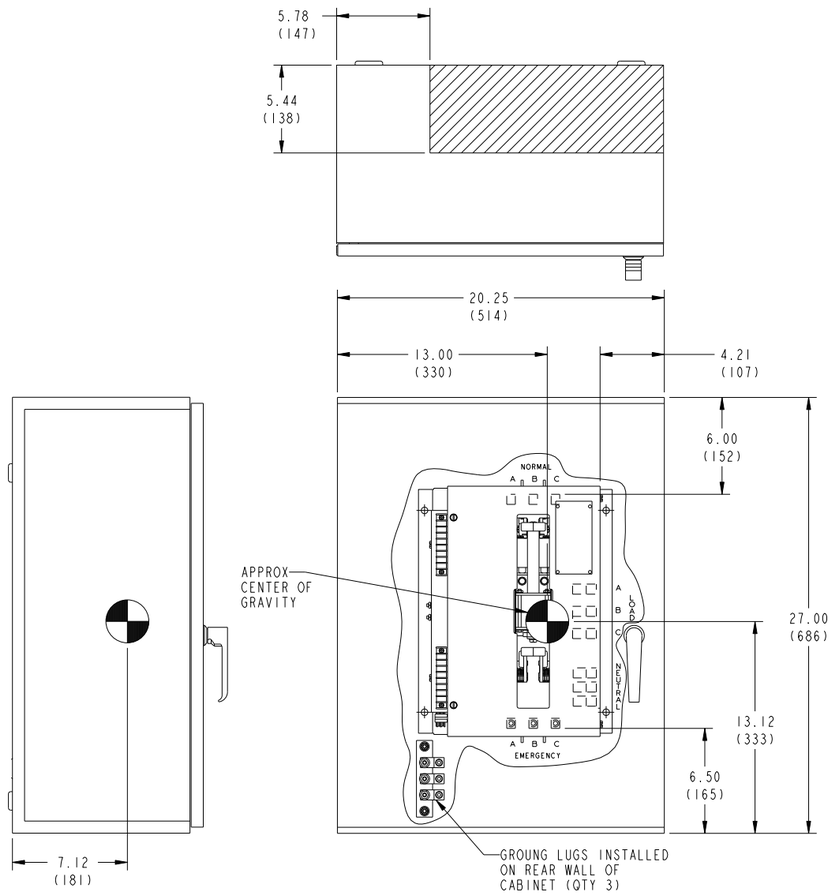
3. LUG CAPACITY:
   NORMAL & EMERGENCY LUGS (QTY 1 WIRE)
   12-2/0 MCM (4-50) CU-AL
   LOAD & NEUTRAL LUGS (QTY 1 WIRE)
   14- 2/0 MCM (2.5-50) CU-AL
   GND LUG CAPACITY:
   (1 WIRE) WIRE RANGE 14-1/0 (2.5-50) CU-AL.

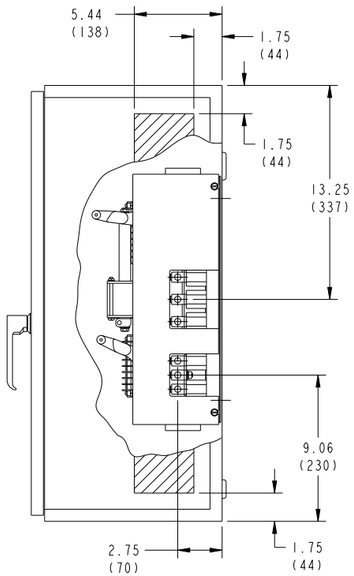
4. USE SEPARATE CONDUITS FOR CONTROL WIRING AND POWER WIRING. DO NOT COMBINE.

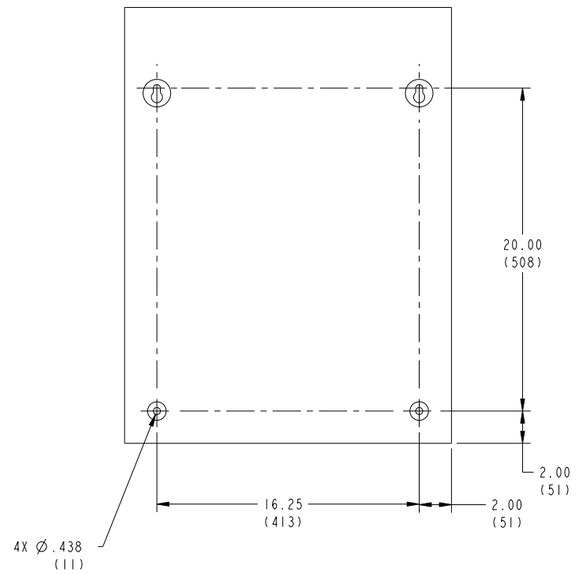
5. SHADED AREA INDICATES WIRING & CABLE ENTRANCE AREA. DO NOT INSTALL OUTSIDE OF SHADED AREA.

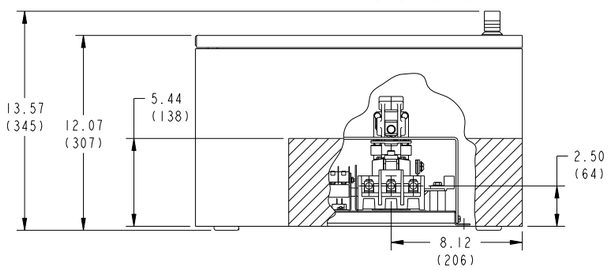
6. WIRE BENDING SPACE CONFORMS TO NATIONAL ELECTRIC CODE (NFPA70).

7. REFER TO THE NATIONAL ELECTRIC CODE FOR MINIMUM CLEAR SPACE IN FRONT OF THIS ENCLOSURE.









UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS			SIM TO 0319_0413	DWN E.ENGLE		CUMMINS POWER GENERATION
DIM	HOLE		DO NOT SCALE PRINT	CKD J.OLSON		OUTLINE-CONTROL BOX
X ±	0.00- 4.99	+0.15/-0.08		APVD J.MILLER		
.X ±	5.00- 9.99	+0.20/-0.10		DATE 16APR90	SITE CODE	
.XX±	10.00-17.49	+0.25/-0.13	- CONFIDENTIAL - PROPERTY OF CUMMINS POWER GENERATION GROUP	FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5M-1994	FIRST USED ON 40-125 AMP	PGF
	17.50-24.99	+0.30/-0.13				DWG SIZE D 0310_0544 SHEET 1 of 1 DWG REV F
ANG TOL: ±	SCALE: 1/1					

Drawing Name: 0310-0544 Revision: F
Part Name: 0310-0544 Revision: A
Sheet 1 of 2

Devri DeToma
Construction Project Manager II

CHARLESTON COUNTY
SOUTH CAROLINA

Phone: 843.202.6144
Fax: 843.202.6152
ddetoma@charlestoncounty.org
Lonnie Hamilton III Public Services Building
4045 Bridge View Drive, Suite B232
North Charleston, SC 29405

December 23, 2019

The Honorable Jimmy Carroll
Mayor City of Isle of Palms
P.O. Box 508
Isle of Palms, SC 29451

Subject: Project Requests - FY 2021 Transportation Sales Tax (TST) Annual Allocation Program

Dear Mayor Carroll:

The Transportation Development staff once again will be preparing lists of resurfacing and new construction projects to be funded under the FY 2021 Annual Allocations portion of the TST program. Prioritizing the resurfacing of existing paved roads will be done utilizing our computerized Pavement Management System which is based on the technical evaluation of the overall condition of each road. This eliminates the need for requests for resurfacing of specific roads. If you should have questions regarding the County's resurfacing program or the Pavement Management System, you may contact County staff at (843) 202-6140.

The annual allocations approved by County Council for new projects includes $4 million for resurfacing, $2 million for Local Paving (earth road improvements), $2 million for Intersection Improvements, and $1 million for Pedestrian/Bike Enhancement Projects.

Beginning in 2009, the Charleston County Council adopted the use of an Objective Evaluation and Prioritization Process for the Allocation projects. This process is used to identify those projects that are most needed and will represent the best utilization of available funds. The benefits attributed to a project are compared to the cost of the project to determine a Project Rating. These Project Ratings are ranked for all projects within each of the above described Allocation Categories. The funding available within each Allocation Category is then applied to the highest ranked projects, with the goal of accomplishing as many projects as possible. It should be noted that some larger projects are funded over multiple years in order to complete them within the annual allocation funding levels.

The benefits considered within each Allocation Category vary to reflect the specific type of improvements the category is intended to address, but generally include measures relating to the number of persons served by a project, the average daily traffic on the road, the degree to which the project would address operational and/or safety problems in the area of the project, the technical

difficulty of designing and/or constructing the project, whether the project will connect to similar adjacent projects, and the measure of public support for the project.

While all of the above mentioned benefits are important in evaluating the project, **we have found public support to be critical** in the successful completion of this program. We would like to ask that you provide some type of evidence that the project is supported by the citizens it is intended to serve. This could be accomplished by submitting letters of support, petitions, and/or a resolution(s) passed by your city or town council. This information is also important to demonstrate that the residents of the area affected by a project are aware of, and not opposed to, the project.

In order to assist you in preparing a request this year, we have again attached a checklist containing information we will need to process each of your requested projects.

We are asking that your request(s) for proposed new construction projects be forwarded to us on or before March 1, 2020. We ask that you submit a fully completed checklist for each project requested and include a statement from the governmental entity having jurisdiction accepting perpetual maintenance responsibilities for the project if selected. Please keep our funding limits in mind as you prepare your list of requested projects.

TST staff members may contact you for additional information as they complete the processing of the requested projects.

If you have any questions regarding details of the program or if any questions arise in the development of your project requests, please contact me at (843) 202-6144.

Sincerely,

Devri DeToma, P.E.
Construction Project Manager

cc: Jim Armstrong, Deputy County Administrator Transportation/Public Works
Steve Thigpen, Director of Public Works
Richard Turner, Deputy Director of Public Works

Attachment

PROJECT CHECKLIST

CHARLESTON COUNTY TRANSPORTATION SALES TAX PROGRAM

FY 2019 ANNUAL ALLOCATIONS PROJECTS

Providing as much of the following information as is known, or is applicable, will assist the Transportation Sales Tax Staff in completing the Objective Evaluation and Prioritization Process for each project requested. The Transportation Sales Tax staff acknowledges that not all requesting entities will have access to every item listed below, but accurate and complete information for as many of the items listed as possible will ensure that the benefits of each project are computed properly when all other projects within each category are evaluated.

GENERAL

Requesting Agency: _____

Project Name: _____

Allocation Category Requested:

___ Intersection Improvements

___ Local Paving

___ Pedestrian/Bike Enhancement

Description of Project:

_____

_____

_____

_____

_____

_____

Brief explanation of the need for the project:

_____

_____

_____

_____

_____

_____

Project Location **(attach map showing location)**

Name of Municipality (if applicable): _____

County Council District: _____

Road Name: _____

Second Road Name: _____
(if Intersection Improvement Project)

Specific Beginning point: _____
(Intersecting street name, specific landmark, distance to closest road, etc.)

Specific Ending point: _____
(Intersecting street name, specific landmark, distance to closest road, etc.)

TECHNICAL PROJECT INFORMATION

For Local Paving Projects-

Number of homes or businesses being served by the project: _____
Average Daily Traffic (VPD) using the road: _____
Does the road serve a school bus route? _____
Does project provide relief to a congested road? _____
Does the project tie to an artery? _____
Does the project tie to a local paved road? _____
Does the project impact significant right of way, known wetlands, grand trees, or other resources? _____

For Intersection Improvements-

Total number of accidents at this intersection in the last five (5) years: _____
Is the project intended to improve: _____ Safety
_____ Capacity
_____ Access
Does the project impact significant right of way, known wetlands, grand trees, or other resources? _____

For Pedestrian/Bike Enhancements-

Will the project tie to another similar facility? _____

Total number of accidents at this intersection in the last five (5) years: _____

What type of road will the project serve? _____ Artery

_____ Collector

_____ Neighborhood Street

How many schools are there within the project limits? _____

How many parks are there within the project limits? _____

Is transit present within the project limits? _____

Will the project connect to a Greenbelt? _____

ADDITIONAL ROJECT INFORMATION

If requesting more than one project, the total number of projects being requested: _____

Of the projects being requested, this project ranks as the number _____ priority.
(1 being the highest, 2 being the second highest, etc.)

If available, please provide any cost estimates that you may have prepared for the project for:

_____ Design Services

Right of Way Acquisition

_____ Construction

_____ TOTAL

Please attach any documentation of public support for the project you may have. Also, please provide the dates of such documentation of support.
(Letters of support, petition(s), resolution(s) by city or town council, etc.)

City of Isle of Palms, South Carolina

Budget Calendar – FY21

January 2020

- Staff review the 10-year Capital Plan
- City Council reviews and approves budget calendar

February 2020

- Standing Committees review departmental 10-year capital plan with staff changes and recommendations
- Budget workshop #1 to discuss City's current financial position, 3-year financial forecast and revenue projections, review 10-year capital plan and identify the FY21 budget priorities

March 2020

- First draft of the FY21 budget is presented to Standing Committees and Council
- Budget workshop #2 to review and discuss first draft of FY21 budget

April 2020

- Second draft of the FY21 budget is developed based on feedback received in March.
- Standing Committees review and approve final draft of budget
- First Reading of FY21 Budget Ordinance

May 2020

- Second Reading of FY21 Budget Ordinance

July 1, 2020

- FY 21 begins