# Asia Pacific Research Initiative for Sustainable Energy Systems 2012 (APRISES12)

Office of Naval Research
Grant Award Number N00014-13-1-0463

# Crissy Field Center Wind Power Study Phase II: Stored Materials and Major Component Inventory

Task 7

Prepared For Hawaii Natural Energy Institute

Prepared By
Golden Gate National Parks Conservancy

June 2018







Deliverable 2: Report on Recommendations for Wind Turbine Systems and Data Acquisition System

# Crissy Field Center Wind Power Study Phase II, Report 2.1: Stored Materials and Major Component Inventory

Prime Award No. N00014-13-1-0463, HNEI Subaward No. MA160014

# Background

Per the terms of the project contract between the Golden Gate National Parks Conservancy and the Hawaii Natural Energy Institute, dated May 6, 2016,

and as outlined in the Statement of Work, The Golden Gate National Parks Conservancy (GGNPC) will plan, permit, install and operate four new vertical axis wind energy systems at the Crissy Field Center (CFC), an existing modular test platform manufactured by Project Frog. The GGNPC will modify existing infrastructure and the Data Acquisition System (DAS) from the prior wind study project to record wind speed, wind direction, and power generation for each wind energy system. Data from the DAS shall be made available to HNEI sufficient for industry standard analysis.

# Report 2.1: Stored MaterialsReport, Major Components Inventory

As outlined in the Deliverables and Payment Schedule, Report 2.1 shall provide documentation of the project's receipt of major project components, including turbines, inverters and all appurtenant data acquisition equipment.

To date, all of the equipment associated with this project has been purchased and supplied to the site by the project contractors, subcontractors and GGNPC.

# **UGE Components**

The majority of the components for the project were purchased by the project prime contractor, Luminalt Energy Corporation. Luminalt purchased the two UGE Vision AIR 3 turbines, 7 meter towers, associated electronics and adaptor plates (and required engineering) from Castle Energy LLC. Castle Energy is a registered distributor for UGE products.





# Castle Energy, LLC

8306 Ridge Rd North Royalton, Oh 44133 440-390-1340

dlwalters@castleNRG.com

TO

Luminalt Energy Corporation

1320 Potrero Ave San Frnasisco, CA 94110

ATTN: August Goers

INVOICE NO: I-1651-2

DATE: December 3, 2016
CUSTOMER ID: Luminalt Energy Corp
JOB NAME: Crissy Replacement

CUSTOMER PO: 2593

SALESPERSON	ЈОВ	PAYMENT TERMS	DUE DATE
Dave Walters	Crissy Replacement	20% Down Upon Order	8/11/16

QUANTITY	DESCRIPTION
2,00	UGE VisionAIR 3 - 1kW Grid Tie Wind Turbine
2.00	UGE VisionAIR 3 - Full set of Seamless Grid electronics
2.00	UGE VisionAIR 3 - 7 Meter Tower
2.00	Windspire - UGE Adapter plates per UGE design
2,00	Windspire - UGE Adapter plates per UGE design - Credit
	Subtotal
1.00	Sales Tax - 8,75%
1.00	Windspire - UGE Adapter plates per UGE design - Credit  Subtotal  Sales Tax - 8.75%  Shipping  Plump Engineering Invoice
.00	Plump Engineering Invoice
5,00	Castle Energy Project Consultatioon
	SUBTOTAL
	TOTAL

Thanks in advance for allowing us to serve you!

Figure 1: Castle Energy Invoice to Luminalt confirming payment in full (with actual costs removed by contractor).

Serven Tax Tan Ta	LAPER	rence, service	, recnnology.	
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House B/L: LTJO	AK72755		Job No : 571857-04	
Vessel: TRUC			IT No : 428049856	
Container/Chassis: 48 ST			Cust Ref: 2463953-STGL	
Weight: 1223			Master B/L: 2463953	
Cube: 7.74 c Manifested Pcs: 6 PKG			Stripped: 22-MAR-2017 11:15 Available at CFS: 22-MAR-2017 13:15	
Manifested Pcs : 6 PKG Desc : WIND			Last Free Day : 28-MAR-2017	
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	OVERDIMENSIO	N		110
	GUARANTEE			-32
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Marks As Per Cargo:				
Trucker's Verification:		_		
Loader: Checke MT Pallets In: Pallets			STGO-571857-0	
Pcs: Time:	_ Door:		3190-311831-0	*
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Figure 2: Acknowledgement of receipt for UGE Turbines and associated equipment.

The UGE equipment was delivered directly to a warehouse adjacent to the project site at Crissy Field.



Figure 3: UGE Turbines and Towers delivered to Crissy Field



Figure 4: UGE Turbines and towers being unloaded at Crissy Field



Figure 5: UGE Turbines and towers being unloaded at Crissy Field



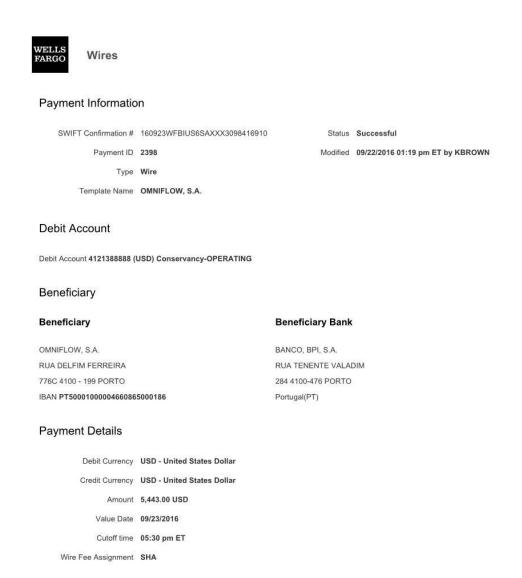
Figure 6: UGE Turbines unpacked and stored for installation at site.

# **Omniflow Components**

The Parks Conservancy contracted directly with Omniflow to purchase two turbines and associated electronics.

The purchase was initiated by a 50% deposit wired to Omniflow:

Page 1 of 2



# References

# Originator

GOLDEN GATE NATIONAL PARK CONSERVAN FORT MASON BLDG 201 SAN FRANCISCO CA UNITED STATES 941

# **Payment References**

ID or Acct # 4121388888

# Internal Reference

Customer Reference INV FP 2016/97
Payment Description INVOICE - FP 2016/97

# Intermediary Bank

# Intermediary Bank

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# **Customs and duty documentation for the Omniflow Units:**



# CARMICHAEL INTERNATIONAL SERVICE

**REMIT PAYMENT TO:** 



Customs Brokers Transportation Consultants Insurance Agents CARMICHAEL INTERNATIONAL SERVICE P.O. BOX 51025 LOS ANGELES, CA 90051-5325

Ocean and Air Freight Forwarders FMC # 118-NF NVOCC

317900 GOLDEN GATE NATIONAL PK CONSERVANCY FORT MASON, BLDG 201, 3RD FLOOR SAN FRANCISCO, CA 94123

ATTN: SANDY CHU OR ANNETTE

USTOMER REFERENCE	* TERMS NET 10	GOLDEN GA	TE NATIONAL P	COMMODITY WIND T	URBINE	
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				TOTAL	U.S. \$	

<sup>\*</sup>TERMS: I.C.C. regulations require inland freight charges to be paid within seven (7) days and ocean freight charges to be paid within forty-eight (48) hours, therefore, immediate payment is required by date specified by your terms. The greater of a minimum service charge of 1.5 % will be added to unpaid balances beyond due date and monthly thereafter.

Except for customs entries and duties, we are independent contractors. The submission of incomplete or inaccurate information related to an import entry, including but not limited to, descriptions, quantities, weights, purchase prices, discounts, commissions, changed selling prices at time of exportation, assists, country of origin, etc., makes you liable to severe government penalties or sanctions. In the event the information forwarded to us, or which accompanied the shipment, does not accurately reflect the entire transaction, it is essential that you immediately notify us so that we can take corrective action.

Do not dispose of any part of a shipment until you have received ALL packages held for Customs examination. If you are unable to redeliver to Customs on demand, severe penalties may result.

THE REVERSE SIDE CONTAINS IMPORTANT TERMS AND CONDITIONS OF SERVICE CONSTITUTING A LEGALLY BINDING CONTRACT INCLUDING A LIMITATION OF LIABILITY.

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BA	BA BRITISH AIRWAYS 40		10. Country of Origin PT			10/2	ort Date 21/2016	
125	AWB No. 32139240		ufacturer ID	14. Exporting Country PT			10/2	ort Date 21/2016
16. I.T. No	5.	17. I.T. Date	18. Missing Docs	19. Foreign Port of Lading 20. U.S. Port of Unlading 2801			iding	
21. Location of Goods/G.O. No. 22. Consignee No. W895 BRITISH AIRWAY SAME				23. Importer No. 94 – 278170800				
	ite Consignee Name and A	Address		26. Importer of Record N GOLDEN GAT FORT MASON SAN FRANCI	, BLDG 2	AL PK	RD FLO	
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27.	28. Dei	scription of Merchane	ise 31	32. A. Entered Value	Value A. HTSUS Rate		34, Duty and I.R. Tax	
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# 

CUSTOMER NAME : GOLDEN GATE NATIONAL PK CONSERVANCY

FILE # : 01302116000579000

ENTRY # : 44231324946

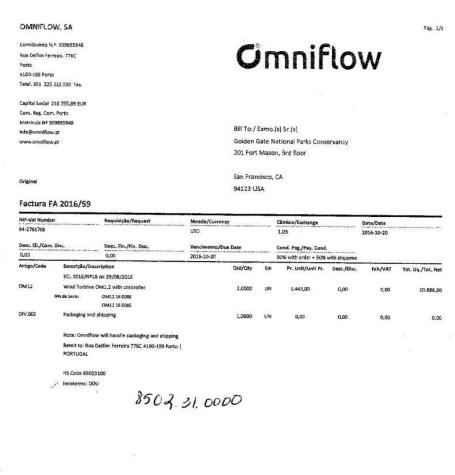
CUSTOMER # : 317900

CUSTOMER REFERENCE:

MBOL/MAWB : 12532139240

MELINDAG

Figure 8: Customs Documentation for Omniflow, Page 3.



axes-impostos					Mercadorias/Serviços/Goods/Servi	10.886,00
Taxa/Valor	STATE OF THE PARTY.	Incid./Quant.	Total	Motivo Isenção	Desc.Comerciais/Com.Disc.	0.00
VA (0,00)	(03)	10.886,00	-0,00	Isento-Ex.Art.14CIVA	Desc. Fin./Fin. Disc.	0.00
					Portes/Shipping	0,00
					Outros Serv./Other Services	0,00
			Adiantamentos/Advances	0,00		
					IEC/Outras Contribuições (	0,00
					IVA/VAT	0,00
				Acerto/Adjustment	0,00	
Loading/Carga:			Ship To/Descar	ga:		
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Porto		- P	San Francisco, C	<b>X</b>	NB: 0010 0000 46608650001 86	
4100-199 Porto		/	94123 USA		IBAN: PT50 0010 0000 4660 8650 0018 6	
Portugal		E. Unidos da América		SWIFT/BIC: BBPIPTPL	9010 0	

Figure 8: Customs Documentation for Omniflow, Page 4.

Os elementos descritos nesta Packing List foram faturados por melo do documento FA 2016.55 195 x 100 x 60 cm Ormiflow SA (NIF 509895948) Rua Delfim Ferreira 776C 4100 - 199 Forto Tel +351 223 219 239

Figure 8: Customs Documentation for Omniflow, Page 5.

MATERIAL SAFETY DATA SHEET

VALVE REGULATED LEAD-CRYSTAL BATTERY
Sealed AGM
(General version for International Trade)

SECTION 1:	PRODUCT AND COMPANY IDENTIFICATION
PRODUCT NAME:	Vaive Regulated Sealed Lead Crystal Battery
OTHER PRODUCT	Lead Crystal: Absorbed Electrolyte Sealed; Valve-Regulated Non-Spillable Battery;
NAMES:	Battery Non-Spillable 49 CFR 173.159a
MANUFACTURER:	The Light of Heaven Earth Battery Manufacturing Co. Ltd.
DIVISION:	Betta Batteries
ADDRESS:	Shangqiang Industrial Zone, Zhejiang Province, P. R. China
EMAIL:	info@bettabatteries.com
+86 1376 179 4709.	HONE NUMBERS: SA: Betta Batteries +27 82 780 2370 CN: Betta Batteries
NON-EMERGENCY HE	EALTH/SAFETY INFORMATION: +86 572 3827978
CHEMICAL FAMILY	This product is an absorbed electrolyte type lead crystal storage battery.
@ : S	istrial/Commercial electrical storage batteries.
This product has passe	ed the vibration test, pressure differential test and leakage test at 55 °C according to
	he TRANSPORT OF DANGEROUS GOODS Model Regulations SPESIAL PROVISION
according to special pro	to IATA DGR escording to special provision A67 and is not restricted to IMDG CODE vision 238
Hazard identification:	
This product has passe	ed the vibration test, pressure differential test and leakage test at 55 °C according to
	he TRANSPORT OF DANGEROUS GOODS Model Regulations SPESIAL PROVISION
	to IATA DGR according to special provision A67 and is not restricted to IMDG CODE
according to special pro	
Emergency overview:	
The internal materials m	nay cause severe irritation to eyes and skin, may cause burns
	Additional Information
No healt	h effects are expected related to normal use of this product as sold
Page 1 of 8	POWERED BY
	Betta Batteries

Figure 8: Customs Documentation for Omniflow, Page 6.

# MSDS

# MATERIAL SAFETY DATA SHEET

VALVE REGULATED LEAD-CRYSTAL BATTERY Sealed AGM (General version for International Trade)

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS (Chemical/Common Names):	CAS No.:	% by Wt:	EC No.:
Lead, inorganic	7439-92-1	60-75 (average: 67)	231-100-4
_ead dioxide	1309-60-0	25-30% (average: 27)	215-174-5
Sulfuric acid	7664-93-9	1.75-3% (average: 2)	231-639-5
Water	7732-18-5	2.8-4.5% (average 3)	231-791-2
Silicone dioxide	7631-86-9	1.4-3% (average 2)	231-545-4
Chemical additives	/NA	0.07-0.165%(average: <0.1)	/NA
ABS Shell	9003-56-9	10-24% (average: 15)	/NA
These ingredients reflect components of the	itional information finished product relate	ed to performance of th	e product as
distributed into commerce.  SECTION 4: FIRST AID MEASURES			
EYE CONTACT: Flush eyes with large amount attention if eyes have been exposed directly to	The second second second	0-15 minutes. Seek imme	diate medical
SKIN CONTACT: Flush-affected area(s) with available shower for at least 10-15 minutes. Re			
attention			

INGESTION: If swallowed, give large amounts of water. Do <u>NOT</u> induce vomiting or aspiration into the lungs may occur and can cause permanent injury or death.

INHALATION: If breathing difficulties develop, remove person to fresh air, if symptoms persist, seek medical attention

# SECTION 5: FIRE-FIGHTING MEASURES

Dry chemical, carbon dioxide, water, foam. Do not use water on live electrical circuits.

# SPECIAL FIREFIGHTING PROCEDURES & PROTECTIVE EQUIPMENT:

Use appropriate media for surrounding fire. Do not use carbon dioxide directly on cells, Avoid breathing vapors.

Use full protective equipment (bunker goar) and self-contained breathing apparatus.

# UNUSUAL FIRE AND EXPLOSION HAZARDS:

Batteries evolve flammable hydrogen gas during charging and may increase fire risk in poorly ventilated areas-

Page 2 of 8

Betta Batteries

Figure 8: Customs Documentation for Omniflow, Page 7.

# MSDS

# MATERIAL SAFETY DATA SHEET

VALVE REGULATED LEAD-CRYSTAL BATTERY Sealed AGM (General version for International Trade)

near sparks, excessive heat or open flames. SPECIFIC HAZARDS IN CASE OF FIRE: Thermal shock may cause battery case to crack open. Containers may explode when heated. Additional Information Firefighting water runoff and dilution water may be toxic and may cause environmental impact. SECTION 6: ACCIDENTAL RELEASE MEASURES PERSONAL PRECAUTIONS: Avoid Contact with Skin. Neutralize any spilled electrolyte with neutralizing agents, such as soda ash, sodium bicarbonate, or very dilute sodium hydroxide solutions. ENVIRONMENTAL PRECAUTIONS: Prevent spilled material from entering sewers and waterways. SPILL CONTAINMENT & CLEANUP METHODS/MATERIALS: Add neutralizer/absorbent to spill area. Sweep or shovel spilled material and absorbent and place in approved container. Dispose of any non-recyclable materials in accordance with local, state, provincial or federal regulations distributors for recycling information. SECTION 7: HANDLING AND STORAGE PRECAUTIONS FOR SAFE HANDLING AND STORAGE: Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components. Do not handle near heat, sparks, or open flames. Protect containers from physical damage to avoid leaks and spills. Place cardboard between layers of stacked batteries to avoid damage and short circuits. Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure or fire. OTHER PRECAUTIONS (e.g.; Incompatibilities): Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and Page 3 of 8 **Betta Batteries** 

Figure 8: Customs Documentation for Omniflow, Page 8.

MATERIAL SAFETY DATA SHEET

VALVE REGULATED LEAD-CRYSTAL BATTERY
Sealed AGM
(General version for international Trade)

SECTION 8: EXPOSURE CON	NTROLS/PERSONAL PROTECTION
ENGINEERING CONTROLS/SYSTEM	DESIGN INFORMATION:
Charge in ventilated area.	T a
VENTILATION:	
General ventilation is acceptable.	
RESPIRATORY PROTECTION:	
Not required for normal conditions of u	ise. See also special firefighting procedures (Section 5).
EYE PROTECTION:	g. at ig p. occusion by
Wear protective glasses with side shie	lds or goggles.
SKIN PROTECTION:	
Wear chemical resistant gloves as a st	andard procedure to prevent skin contact.
PROTECTIVE CLOTHING OR EQU	IIPMENT: None required under normal-use conditions for absorbed
electrolyte-type batteries.	The same and the same conditions for absorbed
Wash hands after handling.	ا ل لم الم
Cray was the restrict.	Additional Information
May be required to fine	A PEL for dust is 15 mg/m as tofal dust or 5 mg/m as-respirable dust.  ef Domestic Requirements for a Specific Destination(s).  CHEMICAL PROPERTIES  lead crystal battery, Black ABS plastic style!
ODOR: Odoriess	Marine - Add grant grant property beautiful to the state of the state
ODOR THRESHOLD: NA	
PHYSICAL STATE: Diluted Sulfuric Ac	id, Crystallized/ Lead, solid
pH: 1-2	
BOILING POINT: NA	
MELTING POINT: 300°C	
FREEZING POINT: NA	
VAPOUR PRESSURE: NA	
VAPOUR DENSITY (AIR = 1): NA	*45
SPECIFIC GRAVITY (H2O = 1): 1.27	
EVAPORATION RATE (n-BuAc=1): No	A
SOLUBILITY IN WATER:	100% (as diluted sulfuric acid)
FLASH POINT:	Below room temperature (as hydrogen gas)
Page 4 of 8	POWERED BY
**	Betta Batteries

Figure 8: Customs Documentation for Omniflow, Page 9.

MATERIAL SAFETY DATA SHEET

VALVE REGULATED LEAD-CRYSTAL BATTERY
Scaled AGM

(General version for International Trade)

AUTO-IGNITION TEMPERATURE:	NA
LOWER EXPLOSIVE LIMIT (LEL):	4% (as hydrogen gas)
UPPER EXPLOSIVE LIMIT (UEL):	74% (as hydrogen gas)
PARTITION COEFFICIENT:	NA .
VISCOSITY (poise @ 25° C):	Not Available
DECOMPOSITION TEMPERATURE:	Not Available
SECTION 10: STABILITY AND	REACTIVITY
INCOMPATIBILITY (MATERIAL TO AV	(OID):
	nditions at ambient temperature up to 65 °C.
	erials, reducing agents, finely divided metals and
strong axidizers.	
HAZARDOUS DECOMPOSITION OR I	BY PRODUCTS:
Thermal decomposition will produce su	ulfur dioxide, sulfur trioxide, carbon monoxide, sulfuric acid mist, and
hydrogen.	
HAZARDOUS POLYMERIZATION:	and a seed
Will not occur	
CONDITIONS TO AVOID:	
Continuous overcharging and sources o	of ignition
SECTION 11: TOXICOLOGICAL  ACUTE TOXICITY (Fest Results Basis	The second second second
Toxicity Data:	Park and Same
Not available	
irritation Data:	
The internal battery materials may cause	e severe irritation to eyes and skin
Carcinogenicity:	
The international agency on cancer (IAR	RC) has classified "strong inorganic acid mist containing sulfuric acid" as
	substance that is carcinogenic to humans. This classification does not
	ined within the lead crystal batteries. Misuse of the product such as
constant overcharging may result in the	
SECTION 12: ECOLOGICAL IN	FORMATION
PERSISTENCE & DEGRADABILITY:	
Lead is very persistent in soils and sedir	ments. No data available on biodegradation.
Page 5 of 8	POWEREG BY
	Betta Batterie

Figure 8: Customs Documentation for Omniflow, Page 10.

MATERIAL SAFETY DATA SHEET

VALVE REGULATED LEAD-CRYSTAL BATTERY
Sealed AGM
(General version for international Trade)

BIOACCUMUL ATIVE DOTENTIAL	#
BIOACCUMULATIVE POTENTIAL	
and terrestrial animals and plants in	cological compartments is low. Bioaccumulation of lead occurs in aquatic
have included lead compounds, not	out very little bioaccumulation occurs through the food chain. Most studies solid inorganic lead
AQUATIC TOXICITY (Test Results	& Comments):
24-hour LC50, fresh water fish (Brad	:hydanio rerio): 82 mg/i
96-hour LOEC, fresh water fish (Cyp	orinus carpio): 22 mg/l (lowest observable effect concentration)
Lead (metal) No data available	The state of the s
38	
Na Caracteristics in Edit Vision in Section 2011	Additional Information
No known effects on stratospheric oz	Marina and Company
Volatileiorganic corripounds: 0% (by	Volume)
Water Endangering Class (WGK): N	<b>4</b> -2
SECTION 13: DISPOSAL CO	DNSIDERATIONS
WASTE DISPOSAL Lead of	rystal batteries are recyclable when sent to a secondary lead smelter. Following local
METHOD: State	rovincial, and Federal/National regulations applicable to end-of-life characteristics wi
be the	responsibility of the end-user.
HAZARDOUS WASTE	
CLASS/CODE US-NO	ot applicable to finished product as manufactured for distribution into commerce.
\\cn-h	ot applicable to finished product as manufactured for distribution into commerce.
2410	Not applicable to finished product as manufactured for distribution into commerce.
Not Included - Recycle or disposes as-disposed.	se as allowed by local jurisdiction for the end-of-life characteristics
SECTION 14: TRANSPORT I	INFORMATION
This product has passed the vibratio	on test, pressure differential test and leakage test at 55 °C according to
Recommendations on the TRANSPO	RT OF DANGEROUS GOODS Model Regulations SPESIAL PROVISION
238	MOON TO SUBJUST OF STREET PROVISION
AIRCRAFT - ICAO-IATA:	Not regulated as a Hazardous Material, transported as normal goods
VESSEL - IMO-IMDG:	Not regulated as a Hazardous Material, transported as normal goods
D	
Page 6 of 8	BOWER PAR

Figure 8: Customs Documentation for Omniflow, Page 11.

# MSDS

# MATERIAL SAFETY DATA SHEET

VALVE REGULATED LEAD-CRYSTAL BATTERY Sealed AGM (General version for International Trade)

# Additional Information

Transport requires proper packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped. Origin/destination/customs points as-shipped.

Each battery and the outer packaging must be plainly and durably marked "Non-spillable" or "Non-spillable Rattery"

SECTION 15: REGULATORY INFORMATION

Chemical CAS #
None NA
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT) Chemicals present in the product which could require reporting under the statute: Chemical CAS #
Lead 7439-92-1 Sulfruinc acid 7664-93-9
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
The finished product contains chemicals subject to the reporting requirements of Section 313 of SARA Title III.
Chemical CAS# / - % wt
Lead
Diluted Sulfuric acid 7664-93-9 3
CERCLA SECTION 31/312 HAZARD CATEGORIES. Note that the finished product is exempt from these
regulations, but lead and sulfuric acid above the thresholds are reportable on Tier II reports.
Fire Hazard No.
Pressure Hazard No
Reactivity Hazard No
Immediate Hazard Yes (Internal acid gel is Corrosive)
Delayed Hazard No
Sulfuric Acid is regulated as an Extremely Hazardous Substance
European inventory of Existing Commercial Chemical Substances (EINECS)
All ingredients remaining in the finished product as distributed into commerce are exempt from, or included on,
the European Inventory of Existing Commercial Chemical Substances
European Communities (EC) Hazard Classification according to directives 67/548/EEC and 1999/45/EC.
R-Phrases S-Phrases 36, 37
1900 - Catalographia o resemblement

# Additional Information

This product may be subject to Restriction of Hazardous Substances (RoHS) regulations in Europe and China, or may be regulated under additional regulations and laws not identified above, such as for uses ofher than-

Page 7 of 8

POWERED BY

Betta Batteries

Figure 8: Customs Documentation for Omniflow, Page 12.

# MSDS

# MATERIAL SAFETY DATA SHEET

VALVE REGULATED LEAD-CRYSTAL BATTERY
Sealed AGM
(General version for International Trade)

described or as-designed/as intended by the manufacturer, or for distribution into specific domestic destinations.

SECTION 16: OTHER INFORMATION

## OTHER INFORMATION:

Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2). Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold

## SOURCES OF INFORMATION:

International Agency for Research on Cancer (1987), IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Overall Evaluations of Carcinogenicity. An updating of IARC Monographs Volumes 1-42, Supplement 7, Lyon, France. Ontario Ministry of Labour Regulation 654/86. Regulations Respecting Exposure to Chemical or Biological Agents. RTECS – Registry of Toxic Effects of Chemical Substances, National institute for Occupational Safety and Health

MSDS/SDS PREPARATION INFORMATION:

DATE OF ISSUE: 10 January 2012 SUPERCEDES: 20 July 2011

DISCLAIMER:

This Material Satety Data Sheet is based upon information and sources available at the time of preparation or revision date. The information in the MSDS was obtained from sources which we believe are reliable, but are beyond our direct supervision or control. We make no Warranty of Merchantability, Fitness for any particular purpose, or any other Warranty, Expressed or implied, with respect to such information, and we assume no liability resulting from its use. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use of, or disposal of the product. It is the obligation of each user of the product to determine the suitability of this product and comply with the requirements of all applicable laws regarding use and disposal of this product. For additional information concerning Betta Batteries International (Pty) Ltd. products or questions concerning

END

the content of this MSDS please contact your Betta Batteries International representative

Page 8 of 8

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Betta Batteries

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Figure 8: Customs Documentation for Omniflow, Page 14.

# **Receipt of Omniflow Equipment**



Figure 9: Omniflow Cowling with PV cells partially unpacked



Figure 10: Omniflow main housing and rotor unpacked



Figure 11: Omniflow controller unpacked.

# **Data Acquisition System Components**

All components and equipment for upgrading the DAS system for Phase II was sourced by project sub-consultant Loisos and Ubbelohde. Purchase receipts from the various suppliers are included as attachments to Loisos and Ubbelohde's invoice #1, below.

# LOISOS + UBBELOHDE ARCHITECTURE . ENERGY 1917 Clement Ave Building 10A • Alameda, CA 94501-1315 510 521 3800 PHONE • 510 521 3820 FAX INVOICE #1617-1104-1 Monitoring Services Tax ID 33-0576678 DATE 4 November 2016 CLIENT Tom Odgers, Project Manager Golden Gate National Parks Conservancy **PROJECT** Crissy Field Center Turbine Monitoring Update **PERIOD** July 1 - September 30, 2016 Task Task Value % Complete Total Due 1. Finalize installation plan \$9,660 85% \$8,211. 15% 2. Order, prepare, install equip \$18,515 \$2,777. 3. Update syste software/interface \$14,490 4. Maintain data delivery \$24,240 5. System performance reports \$ 6,440 TOTAL \$ 10,988. \$73,345 Optional: 6. System Maintenance Extension Reimbursable Costs: EQUIPMENT (receipts follow this page) Western Weather monitoring \$7,464.84 \$ 1,078.00 Dent Instruments power monitoring One Workplace - controller 949.43 Continental Control Systems - power 678.00 Jameco - power supply 18.01 TOTAL \$10,188.28 Total Base Fee Billings ..... \$ 21,176.28 Less Previous Billings \$ 0. Total Base Fee Due This Invoice ..... \$ 21,176.28. TOTAL DUE THIS INVOICE

\$21,176.28.

Figure 14: L&U Invoice 1



INVOICE

686 Rio Lindo Ave. CHICO, CA 95926 Tel: 530.342.1700 billing@westernwx.com

Due Date	Date	Invoice #
10/29/2016	9/29/2016	13535

# Bill To

Loisos & Ubbelohde Nathan Brown 1917 Clement Ave., Building 10A Alameda, CA 94501

# Ship To

Nathan Brown 1917 Clement Ave., Building 10A Alameda, CA 94501

Please check box if address is incorrect or has changed, and indicate change(s) on reverse side. Send with your payment.

		Sales Rep	P.O. No.	Terms <sup>2</sup>	Que	ote No.	Ship Via <sup>3</sup>
		DS	Crissy-1	NET 30	(	5223	Best Way
Li		Description	n		Qty	Unit	Exp Price
-	BASE STATION WITH 4 WIN	D SPEED AND	DIRECTION SENS	SORS - USER			
	TO SUPPLY 12-VOLT POWE						
1	ENC12/14 Weather-Resistant 1:	2X14 inch Enclos	sure		1	245.00	245.00
2	-MM Tripod Mast Mounting	17			1	60.00	60.00
3	-SC 1 Conduit for Cables				1	0.00	0.00
4	CR800 Measurement & Control	Datalogger			1	1,100.00	1,100.00
5	RS-485 Multidrop Interface				1	260.00	260.00
6	DATALOGGER PROGRAMM	ING FOR MOD	BUS APPLICATIO	N USING	1	600.00	600.00
	RS-485 COMMUNICATIONS		2			00.00	252.00
7	Sensor Crossarm w/one CM210		ft		4	88.00	352.00
8	3/4 x 1 Inch Nurail Crossover F	itting			8	22.00	176.00
9	014A WIND SPEED SENSOR				4	285.00	1,140.00
10	024A WIND DIRECTION SEN				4	385.00	1,540.00
11	1805 - TEN FOOT WIND SPE				1	55.00	55.00
12	1806 - TEN FOOT WIND DIR		12	4A	1	55.00	55.00
13	1805 - 200 FOOT WIND SPEE				3	150.00	450.00
14	1806 - 200 FOOT WIND DIRE	CTION SENSO	R CABLE FOR 024	A	3	150.00	450.00
15	1805 - 76 FOOT WIND SPEEL	SENSOR CAB	LE FOR 014A		1	105.00	105.00
16	1806 - 76 FOOT WIND DIREC	TION SENSOR	CABLE FOR 024A	<b>X</b>	1	105.00	105.00
17	Shipping				1	193.00	193.00
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Online payment option via Credit Card: http://www.westernweathergroup.com/pay

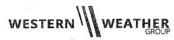


Total Sales Tax 1 Payments/Credits Balance Due

FED ID #26-1624781 Certified CA Small Business No. 43541

- 1. Applicable sales tax is based on ShipTo Address & current sales tax rate at date of invoice.

  2. Terms & Conditions are governed by the terms found at http://www.westernweathergroup.com/terms-and-conditions.
- 3. F.O.B.: Ship Point



686 Rio Lindo Áve. CHICO, CA 95926 Tel: 530.342.1700 billing@westernwx.com

# Bill To

Loisos & Ubbelohde Nathan Brown 1917 Clement Ave., Building 10A Alameda, CA 94501

# INVOICE

Due Date	Date	Invoice #
10/29/2016	9/29/2016	13535

# Ship To

Nathan Brown 1917 Clement Ave., Building 10A Alameda, CA 94501

Please check box if address is incorrect or has changed, and indicate change(s) on reverse side. Send with your payment.

1	Sales Rep	P.O. No.	Terms '	Quote No.	Ship Via
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BIT & CREDIT http://www.weste	ernweathergroup.com/pay		Pay	ments/Credits	\$0.0
D ID #26-1624781 rtified CA Small Business No	10511		Bala	ince Due	\$7,464.8

Applicable sales tax is based on ShipTo Address & current sales tax rate at date of invoice.
 Terms & Conditions are governed by the terms found at http://www.westernweathergroup.com/terms-and-conditions.
 F.O.B.: Ship Point

# **DENT** Instruments, Inc.

TIN# 93-1118853 925 SW Emkay Drive Bend, OR 97702 (541) 388-4774



Customer No.: LOISOS+UBBEL Invoice No.: 76361

# Loisos+Ubbelohde

Attn: Nathan Brown 1917 Clement Ave Bldg 10A Alameda, CA 94501

# Ship To:

# Loisos+Ubbelohde

Attn: Nathan Brown 1917 Clement Ave Bld 10A Alameda, CA 94501

Date	1	Ship Via	1Z:	Tracking Number: 97392X0365159011 Terms	S. 75376-110
09/16/16		PS-Grnd	Origin	CREDIT CARD	
Purchase (	Order Number	Order Date	Sales Person	Our Order Num	iber
Quote	3033	09/12/16	FACTORY	120933	
Qua Required Shi	ntity	DENT Part Number	Description	Unit Price	Amount
1	1	60PS24DS	PS24DS PS24 Serial in Enclosure	1063.00	1063.00
1	1	65VPSW	VP-SW DENT ViewPoint SW V4.0.38 USB FLASH DRIVE	0.00	0.00

Estimated Shipping GROUND 1 box \$15.00

Nathan Brown nathan@coolshadow.com 510-521-3800

 Invoice subtotal
 1063.00

 Freight
 15.00

 Total in U.S. Dollars
 1078.00

 Less payments received
 1078.00

Net Due in U.S. Dollars 0.00

Visit our website www.DENTinstruments.com

These commodities, technology, or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

Your order is greatly appreciated! Thank you!





HEADQUARTERS
2500 DE LA CRUZ BLVD,
SANTA CLARA, CA 95050
T 669, 800, 2500
F 669, 800, 2501

www.oneworkplace.com

NORTH BAY 475 BRANNAN ST., STE. 210 SAN FRANCISCO, CA 94107 T 415. 357. 2200 F 415. 357. 2201 EAST BAY
7220 EDGEWATER DR.
CAKLAND, CA 94621
T 510. 729. 7800
F 510. 729. 7801

# Quotation

Page 1 / 1

Quote	Quote Date	Customer Order	Customer	Account Representative	Project
156234	8/30/2016		VIS001	Audio Visual	151049

Quote To

Tom Odgers Golden Gate National Parks Con 201 Fort Mason Bldg 37 San Francisco, CA 94123-1307 Ship To

Nathan Brown Loisos + Ubbelohde 1917 Clement Ave BLDG 10 A Alameda, CA 94501-1315

23

Terms Cash or Charge Sale

nathan@coolshadow.com

Line	Quantity	Catalog Number / Description	Unit Price	Extended Amount
1	1	FG2106-01 NX-1200 NetLinx NX Integrated Controller with 512 MB RAM, 1600 MIPS Processor, 4 UK of FLASH, 2 Serial Ports, 2 IR Ports, 4 I/O Ports, and IPv6	832.06	832.00
	3	QUOTATION TOTALS	3000 800	
		Shippin	Sub Total g and Handling	832.06 35.00
		ALAMEDA-DIST TAX (BART//	ACTI/ACHC/AC ALAMEDA CALIFORNIA	17.34 10.84 54.19
			Grand Total	949.43
		End of Quotation	<del>1011</del> - 100	
			×	
				1000

CLIENT SIGNATURE	2 - 1144	 		
PRINT NAME	TITLE	 	DATE	-

From: One Workplace L Ferrari notifications@paytrace.com
Subject: One Workplace L Ferrari transaction receipt. 9/12/2016 1:16:20 PM Pacific
Date: September 12, 2016 at 1:16 PM
To: creditcard@oneworkplace.com, nathan@coolshadow.com

# One Workplace L Ferrari

2500 De La Cruz Blvd Santa Clara, CA 95050 http://www.oneworkplace.com creditcard@oneworkplace.com

Your transaction was approved! Please retain this message as a receipt.

Order ID: 449595 VIS001 Transaction ID: 129048171 Date/Time: 9/12/2016 1:16:19 PM

**Payment Details:** 

Total: \$949.43
Card Type: American Express
Card Number: xxxxxxxxx4006

Billing Address:

George A Loisos 1091 Calcot Pl #106 Oakland CA 94606 US

nathan@coolshadow.com

**Additional Details:** 

# Continental Control Systems, LLC

Invoice

3131 Indian Road, Suite A, Boulder CO, 80301 USA - Tel: (303) 444-7422 Fax: (303) 444-2903, Toll Free (888) 928-8663 sales@ccontrolsys.co.

2016-10-18

Vendor#
Continental Control Systems, LLC.

3131 Indian Road Boulder, CO 80301 Phone: 303-444-7422

Invoice Date: Customer PO No: GGNPC CRISSY UPDATE

2016-10-18

Terms from Ship Date:

Credit Card

Ship Via: Tracking No:

UPS GROUND 1ZA477F70360630460

Amount Due:

\$0.00

# Bill To:

LOISOS UBBELOHDE 1917 CLEMENT AVENUE BLDG 10A ALAMEDA, CA 94501

Shipped To:

LOISOS UBBELOHDE

ATTN: NATHAN BROWN / 510-521-3800

1917 CLEMENT AVENUE BLDG 10A

ALAMEDA, CA 94501

Part Number/Item Description	Ord	В/О	Ship	Price	Amount
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ORDER CANCELLATION & REDUCTION POLICY: Once ordered, items marked "NC/NR" are non-cancellable and non-returnable. Notwithstanding any provisions in the customer's purchase order, orders for other items may be reduced or cancelled only with the prior written approval of Continental Control Systems, LLC (which may be withheld in its sole discretion) at least 60 days before the expected date of shipment.

RETURN POLICY: 90 day return period with approval. See website @

(www.controlsys.com/w/Warranty#Return\_Policy) for full details.

LATE FEES: Payment for all product is due as stated in the Terms net from the date of the invoice. Any payment which is not received within such payment period on the invoice shall include a service charge equal to two (2%) percent of the past due amount per month. See website @ (www.ccontrolsys.com/w/General Terms and Conditions of Sale) for full term

Thank you for your

Subtotal: \$678.00

Sales Tax: (0.00) Payments/Credits: -\$678.00

\$0.00

Amount Due:

\$0.00

Payment to be made in United States Dollars



Ship to:

Nathan Brown\Loisos + Ubbelohde

1917 Clement Ave, Bld 10A Alameda, CA 94501

United States

Bill to:

Loisos + Ubbelohde

Nathan Brown

1917 Clement Ave, Bld 10A Alameda, CA 94501

United States

Contact

Nathan Brown

Jameco Electronics

1355 Shoreway Road Belmont, CA 94002

**United States** 

Telephone Fax Web

1-800-831-4242 1-800-237-6948

Page 1 of 1

www.Jameco.com

**Invoice** 

Number Invoice date 20119130

20119130

Cash

10/14/2016 9400110200793160202614 Tracking number

Sales order

Your reference Our reference

Payment terms

Invoice account

Net due

3067790 10/14/2016

Mode of delivery

USPS 1st Class

Item

 number
 Description

 2225553
 TRANS,WALL,SW,12V@2.08A,25W,F2 2.1mmX5.5mm,90-264VAC,47-63HZ 25 Watt AC-DC

Quantity Unit

Unit price 12.4900

Amount

Sales subtotal amount	Total discount	Freight charges	Other charges	Total charges	Net amount	Sales tax	Total
12.49	0.0000	4.58	0.00	4.58	17.07	0.94	18.01 USD

Payment Information

Payment Type Status

Credit Card Number

Amount

Visa

Charged

\*\*\*\*\*\*\*\*\*3603

18.01



DAS Equipment Delivered to Project Site