

membrane replacement proposal

to:	County of Santa Barbara referred to here as Laguna or Buyer	date:	February 5, 2020
		no. of pages:	26 including cover
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subject:	membrane replacement: option 1 - 1 x ZW500D 20Ms cassette with 350ft ² modules + 3 x ZW500C 250ft ² modules	proposal no.:	395847-2
		original project no.:	500162
plant data:	Please provide corrections if inaccurate Laguna County Sanitation District Tertiary Treatment Plant. 2 trains, each train has 14 x ZW500C 26M cassettes with 250ft ² membrane modules. Substantial Completion Date: April 1, 2003		

proposal provisos

This proposal has been issued based on the information provided by the customer and on information currently available to SUEZ Water Technologies & Solutions at the time of proposal issuance. Any changes or discrepancies in site conditions, including but not limited to changes in system influent water characteristics, changes in environmental health and safety (EH&S) conditions, changes in the reissued state/provincial disposal system permit, changes in buyer financial standing, buyer requirements, or any other relevant change or discrepancy in the factual basis upon which this proposal was created may lead to changes in the offering, including but not limited to changes in pricing, guarantees, quoted specifications, or terms and conditions.

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1 introduction

SUEZ Water Technologies & Solutions is pleased to present this proposal at the request of the County of Santa Barbara to provide membrane modules to replace existing membranes at the Laguna County Sanitation District Tertiary Treatment Plant.

SUEZ is no longer designing systems using ZW500C 250ft² membrane modules. Only very limited 500C inventory remains.

SUEZ strongly recommends that all plants currently operating with 500C modules give priority to upgrading to an alternative membrane replacement solution. At Laguna's request SUEZ has provided a revised proposal for

- ❑ 1 x ZW500D 20Ms cassette with 350ft² membrane modules;
- ❑ 3 x ZW500C 250ft² membrane modules.

ZW500D 20Ms cassette



It should be noted that one ZW500Ds 20M cassette will directly replace one ZW500C 26M cassette and be installed into the same membrane cassette position in the train. Modules in good shape from the replaced cassette(s) will then be available to salvage and can be swapped with underperforming modules in other ZW500C cassettes.

SUEZ is a proven leader in delivering tangible value to our clients over the life of the plant. Our measure of success is how well we deliver **solutions** that help our clients meet their critical business objectives.

Through long-acquired technical experience, SUEZ has clearly distinguished itself from other membrane manufacturers. A mature service culture and deep technical expertise are ready to serve and support Laguna through this next membrane lifecycle.

2 SUEZ scope & price

SUEZ’s scope includes the material and services outlined in the table below. The sections that follow provide additional detail regarding each scope item.

item description	part #	quantity	price (“currency”)
M/C-ZW500Ds,350,20/20,316L,cyc,2X4, section 3	3144414	1	72,752
membrane modules, ZW500C 250ft²	3111040	3	
2 year ZW500Ds full replacement membrane warranty, section 8		incl.	
fiber repair kit		incl.	
ZW500C cassette hardware, section 3		lot	
spare ZW500D element endcap keys	3040447	5	
spare ZW500D permeate o-rings	3033690	50	
spare ZW500D blank module header sets	3111171	1	
ZW500D cassette hanging arms and hardware		1 set	
ZW500D lifting bracket		1	
ZW500D module removal tool	3040549	1	
ZW500D permeate spools and connections		1 set	
ZW500D air spool and connections		1 set	
in-house support, project management, section 4.1		incl.	16,531
on-site support, 1 FSR, 3 x 8hr days, section 4.2	135491	incl.	
freight, DDP Laguna Tertiary site, section 5	3095534	incl.	6,597
All figures are in USD			
Please make purchase order to ZENON Environmental Corporation		total price	\$95,880

invoicing schedule	% of total invoice
An invoice will be issued when membrane module shipping documents are supplied to the carrier.	90%
A final invoice will be issued upon completion of installation, or 30 days after delivery if SUEZ is not providing onsite technical installation support.	10%
	100%

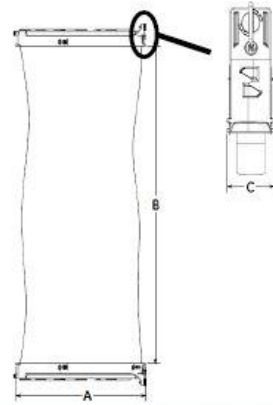
3 material description



Water Technologies & Solutions
fact sheet

ZeeWeed* 500D module

Module Dimensions			
Product	Width (A) mm (in)	Height (B) mm (in)	Depth (C) mm (in)
370, 340	844 (33.2)	2,198 (86.5)	49 (1.9)
440		52 (2.05)	
300s	844 (33.2)	1,835 (72.25)	49 (1.9)
350s			52 (2.05)



Module Properties									
Application	Product	Nominal Membrane Surface Area m ² (ft ²)	Max. Shipping Weight ¹ kg (lb)	Lifting Weight ² kg (lb)	Material	Nominal Pore Size (µm)	Surface Properties	Fiber Diameter (mm)	Flow Path
MBR	370	34.4 (370)	28 (61)	28 - 75 (61 - 164)	PVDF	0.04	Non-ionic & Hydrophilic	OD: 1.9 ID: 0.8	Outside-In
	300s	27.9 (300)	24 (53)	24 - 58 (53 - 128)					
Non-MBR	440	40.9 (440)	32 (70)	30 - 74 (66 - 163)					
	350s	32.5 (350)	26 (57)	26 - 72 (57 - 159)					
All	340	31.6 (340)	26 (61)	26 - 60 (57 - 132)					

¹ Packaged

² Varies with solids accumulation

Operating & Cleaning Specifications							
Application	Product	TMP Range kPa (psig)	Max. Operating pH Range	Operating pH Range	Max. Cleaning Temp. °C (°F)	Cleaning pH Range	Max. Cl, Conc'n (ppm)
MBR	370, 340, 300s	-55 to 55 [-8 to 8]	40 (104)	5.0-9.5	40 (104)	2.0 - 10.5 (<30°C) 2.0 - 10.0 (30-40°C)	1,000
Non-MBR	440, 340, 350s	-90 to 90 [-13 to 13]					

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Water Technologies & Solutions
fact sheet

ZeeWeed* 500D cassette

Cassette Dimensions			
Product	Width (A) mm (in)	Length (B) mm (in)	Height (C) mm (in)
68M	1,745 (68.7)	2,136 (84.1)	2,561 (100.8)
64M	1,745 (68.7)	2,116 (83.3)	2,561 (100.8)
48M			
20M	738 (29.1)	1,744 (68.7)	2,512 (98.9)
16M			
20Ms			2,149 (84.6)
16Ms	738 (29.1)	980.2 (38.6)	2085.8 (82.1)
10Ms			
8Ms	738 (29.1)	980.2 (38.6)	2085.8 (82.1)

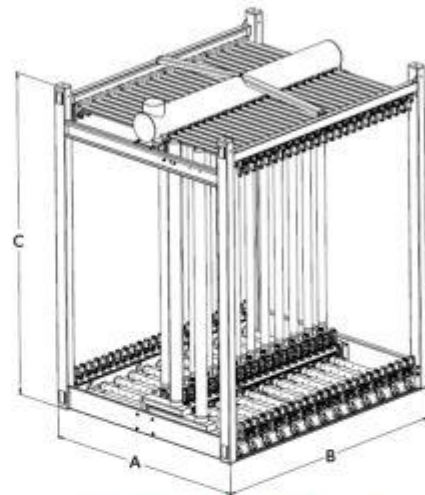


Figure 1: Drawing of 48M Cassette

Cassette Tie-Points & Weights							
Application	Product	Max. # of ZW Modules	Min. # of ZW Modules	Permeate Connection	Air Connection	Max. Shipping Weight* kg (lb)	Lifting Weight** kg (lb)
	48M D	48	24	1 x 6" Pipe	2 x 3" pipe	1,729 (3,812)	1,959 - 4,064 (4,320 - 8,962)
	16M D	16	8	2 x 4" FNPT	1 x 3" FNPT	714 (1,574)	756 - 1,464 (1,667 - 3,228)
	16M Ds	16	8			677 (1,493)	1,366 (2,946)
	8M Ds	8	4	1 x 3" FNPT	1 x 2" FNPT	295 (651)	648 (1,430)
Non-MBR	68M D	68	34	1 x 8" horz. Pipe	2 x 3" FNPT		
	64M D	64	32		2 x 3" pipe	2,033 (4,483)	2,375 - 4,380 (5,237 - 9,659)
	20M D	20	10	2 x 4" FNPT	1 x 3" FNPT	800 (1,764)	870 - 1,553 (1,918 - 3,424)
	20M Ds	20	10			754 (1,662)	1,509 (3,327)
	10M Ds	10	5	1 x 3" FNPT	1 x 2" FNPT	295 (651)	1,170 (2,579)

* Crated with maximum number of modules

** Varies with number of modules and solids accumulation

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ZW500C cassette hardware:

- 1/4-20 316SS heavy hex nuts;
- 1/4" Nord-Lock washer (large 0.53" OD);
- 3/8-16 316SS nuts;
- 3/8-16 nylon insert lock nut;
- 3/8-16 316SS flat washer;
- 3/8-16 316SS lock washer.

Quantities of ZW500C hardware will be supplied, sufficient to change modules in multiple cassettes and leave spares.

4 SUEZ support

4.1 off-site support

project management

SUEZ will provide planning and off-site assistance during the membrane replacement project.

4.2 on-site technical advisory services

The proposal includes a provision for technical advisory services during installation and commissioning process to Laguna's staff as outlined in section 2. SUEZ strongly recommends that Laguna consider having at least one experienced person on site during this period.

The following activities will be executed and completed jointly by SUEZ personnel and plant staff:

- remove existing membranes/cassettes;
- install the new membrane modules/cassettes;
- perform bubble test where applicable to test membrane integrity and review trans membrane pressure (TMP) on the installed membranes and compare to expected values for new membranes.
- evaluate condition of removed ZW500c membranes for installation in other cassettes

operating responsibility - Laguna retains control of the work site and retains final responsibility for the installation and commissioning process.

SUEZ will perform the services specified in the scope section of this document, but SUEZ will not operate the system. For the purposes of this agreement, the term "operate the system" shall mean to run or control the functioning of the equipment or to otherwise conduct or manage the affairs of any aspect of water or wastewater treatment or other

functions at Laguna's site, and shall include functions such as providing operators or laborers to adjust or control water treatment ("WT") equipment, wastewater treatment ("WWT") equipment or sludge management facilities ("SWF"), providing program oversight or directing on-site or contract operators/laborers to adjust or control WWT or SMF, providing personnel responsible for or providing oversight of water treatment residual quality, wastewater effluent quality, sludge quality, waste characterization, or waste disposal activities, or providing personnel with continual or daily operational responsibilities with respect to water or wastewater treatment, influent or effluent compliance monitoring, process monitoring, government reporting or notification, or permit compliance.

waiting time - Any overtime or waiting times required due to unforeseen site events outside the control of SUEZ will be invoiced according to the prevailing SUEZ service labor rates sheet, available on request.

reporting - Before leaving site, SUEZ will record observations and discuss with operators concerning the condition of the equipment, tasks accomplished during the visit, and key operating and maintenance issues requiring further attention. SUEZ will provide a copy of a written report before leaving site and/or provide a service visit report to the plant operator within a reasonable timeframe of the SUEZ service representative's return to the office. In any case, Laguna will be asked to sign a work order that describes the hours on site and tasks accomplished.

SUEZ duties for on-site services

- SUEZ will coordinate its work under this agreement in a reasonable manner with the operating staff of the facility.
- SUEZ will maintain public liability and property damage insurance covering all operations undertaken by SUEZ and its sub-contractors with a limit of \$5,000,000 inclusive for any one accident or occurrence. If for any reason additional insurance coverage (e.g. general construction/erection all risk, general liability) is required above and beyond SUEZ's standard insurance terms for on-site commissioning supervision, Laguna must inform SUEZ in writing 60 days prior to work commencement at site. Laguna will be billed for all additional insurance costs and processing fees.
- SUEZ will maintain workers compensation and employers' liability coverage as per statutory requirements.

5 delivery

- packaging** – ZW500Ds - membranes factory-installed in operational cassette. ZW500C – membranes individually bagged, boxed and crated.
- DDP** - Delivery will be by standard ocean/ground on the basis of DDP Laguna Tertiary Treatment Plant, 3500 Black Road, Santa Maria, CA, USA or other named place of destination; Incoterms 2010. DDP = delivery duty paid. Partial shipments will be acceptable unless otherwise specified. Where delivery cannot be accepted at this destination, Laguna shall specify an alternate, equivalent destination without delay.

Due to varying origins and availability, non-membrane items included in this proposal may be shipped separately from the membranes. Should separate shipments be required, where possible, SUEZ will strive to provide these items on or before the delivery of the membranes.

- ❑ **origin** - Delivery of ZeeWeed membranes originates from the SUEZ Water Technologies & Solutions, ZENON Membrane Products (ZEM), Bláthy Ottó u 4, Oroszlány, 2840 Hungary facility.
- ❑ **title & risk** - Title and risk of loss or damage to membrane modules, cassette frames, ancillary equipment and crating shall pass to Laguna upon delivery at the named place of destination.
- ❑ **export documents** - All ZeeWeed membrane module shipments into the USA require clearance documentation from the EPA. SUEZ will prepare and provide the required EPA documentation to the Carrier.
- ❑ **MPF** - Merchandise processing fee is a fee assessed for formal custom entries based on 0.35% of the invoice value, with a minimum of USD \$25 per formal entry and a maximum of USD \$485. On the basis of DDP terms, this fee will be paid by SUEZ within the quoted price.
- ❑ **duty** - A US Customs duty of 3.9% applies to all ZeeWeed membranes shipped individually or in shipping frames; not in operational cassette frames. On the basis of DDP terms, this duty will be paid by SUEZ within the quoted price. Any new duty imposed after the date of this proposal is the responsibility of Laguna.
- ❑ **taxes** - All applicable local, state, or federal taxes are the responsibility of Laguna.
- ❑ **temperature** - UF membranes cannot be allowed to freeze or overheat and may require temperature-controlled freight and handling according to the season and the planned routing. If required, the price of temperature control will be included within the firm quote on freight by SUEZ.
- ❑ **unloading** - may require one of or a combination of a loading dock, extended forks and an experienced fork lift driver at delivery destination. Please consult with SUEZ at the time of purchase order (PO) preparation on this.

shipping crate Information (estimated)

qty	description	dimensions (in.)	weight (lb.)
1	ZW500D 20Ms cassette crate	L=75 x W=35 x H=94	1,966
1	ZW500C 3M membrane module crate	L=93 x W=40 x H=39	800

Notes:

- Only crates for membrane/cassette transport have been shown above to identify the largest and heaviest items that will need to be unloaded;
- Smaller crates/skids will be used for hardware items (hanger arms, spool connection components, etc.).

- **availability** - Delivery of membrane modules is typically 10 - 20 weeks after receipt of order. Definitive availability will be confirmed once a purchase order is received from Laguna and acknowledgement of a purchase order is issued by SUEZ.

6 solution design notes

6.1 permits

regulatory requirements

Laguna is responsible to review and report to the permit granting agency on the impact of any of the proposed changes on the regulatory permit. SUEZ will provide the necessary manufacturer's technical support on regulatory issues.

Please speak with your regional lifecycle manager (RLM) if there are any regulatory requirements or concerns.

utilization

SUEZ understands that these modules are required as replacements for currently installed modules.

One ZW500D 20Ms cassette fully populated with 350ft² membranes = 7,000 ft² of membrane surface area. The current ZW500C 26M cassettes with 250ft² membranes have 6,500ft² of membrane surface area.

These modules are offered on the basis that the membrane modules will not be used to provide expanded flow beyond the current plant flow rating. SUEZ makes no guarantees, implied or otherwise as to the performance of these modules in any other capacity than as replacement membranes.

6.2 maintenance notes for replacement membranes

preferential flow

Preferential flows can create a risk of over-fluxing of new modules when they are installed in the same train with older modules. The mixing of old and new modules in the same cassette also makes management of slack adjustment more difficult. SUEZ recommends that Laguna plan membrane module replacement on a complete cassette and complete train basis wherever possible to achieve both optimal performance and best value from the new membrane modules.

membrane slack

SUEZ's membranes are supplied and shipped with an initial factory fiber slack designed to optimize membrane air scouring during operation as well as accommodate a degree of shrinkage. Membranes shrink in length early in their lifecycle when exposed to higher temperature water. The pace of shrinkage slows with age. With the installation of new membranes, the requirements for slack adjustment start a new cycle.

Due to the wide variety of operating environments in which our products can be utilized, it is difficult to generally predict the rate of shrinkage. If membranes operate in a condition of

insufficient slack for an extended period of time, irreversible damage to the fiber-urethane bond may occur. Please refer below to the recommended inspection frequencies based on your plant’s membrane tank operating temperature. Visual inspections should begin during the membrane installation and be repeated over time on the same cassette. Digital pictures will allow for comparative analysis of the fiber slack over time.

maximum operating temperature	recommended slack inspection frequency
0-24 °C / 32-76 °F	every 2 years
25-30 °C / 77-86 °F	once per year
>30 °C / > 86 °F	twice per year

membrane repairs

All new modules are factory tested at our manufacturing facilities and are in good working order as they are packaged and crated for shipment. On occasion, a limited number of modules arriving at site may require repairs due to uncontrollable factors during shipping and receiving, in particular with multi-modal shipments. This membrane replacement proposal includes a provision for one fiber repair kit for drinking water modules.

6.3 technical

benefits of ZW500D modules

The technical and economic advantages of the ZW500D modules include:

- higher surface area density;
- each module is individually removable to simplify access for efficient membrane maintenance;
- SUEZ investments in R&D will continue to move the ZW500D technology platform forward whereas the ZW500C platform has been discontinued;
- enjoy reliability through the simplified, robust design of the ZW500D.

tank fit

SUEZ has confirmed based on review of the tank drawings that the ZW500Ds cassette will fit in the existing ZW500C tanks.

lifting weight & height

The lifting weight ranges for ZW500Ds cassettes differ from the current ZW500C cassettes and need to be considered to ensure that the site has adequate lifting capacity available to install and later remove the cassettes safely.

cassette type	lifting weight range (lb.)	cassette height (in.)
ZW500C 26M	1,837 – 2,983	82.1
ZW500D 20Ms	2,051 – 3,119	84.6

Laguna is also responsible to undertake an on-site confirmation that lifting heights are adequate in all areas of the plant to accommodate any proposed change from ZW500C to ZW500Ds.

pre-screen

To ensure effective operation and to maximize membrane life, SUEZ recommends operation of a pre-treatment screen, upstream of the pretreatment process, with mesh or punched-hole openings less than or equal to 0.5 mm and with no possibility of bypass or carryover. All processes after this screening must be covered and protected from outside elements such that no leaves, twigs or any foreign material can enter the membrane tank.

7 health & safety

Laguna

- ❑ Laguna will provide orientation to Seller's personnel to ensure site-specific safety protocols are known. Laguna will identify and inform Seller's personnel of any site-specific hazards present in the work place that could impact the delivery of Seller's scope of supply and agrees to work with Seller to remove, monitor, and control the hazards to a practical level.
- ❑ Laguna will provide any site-specific or standard company operating procedures and practices for Seller's personnel to perform work on site, if required by Laguna's policies. Such programs may include, but are not limited to, general environmental health & safety (EHS), HAZOP, fire protection, drug testing, incident notice, site conduct, standard first aid, chemical receiving, electrical safety, etc. Laguna will provide a certificate of program completion for Seller's personnel. This program will be fully documented, training materials will be provided, and attendance list will be kept.
- ❑ If any type of lifting devices will be used on site, Laguna will provide proof of its maintenance, inspection and certification documentation upon request and will assist the SUEZ service representative to complete a safety inspection checklist.
- ❑ Where confined space entry may be required, Laguna will provide early notice and will collaborate with SUEZ in planning adequate staffing and in advising the local fire/rescue department as required.
- ❑ No time or cost provision has been made for preparations such as safety record clearances, drug testing, insurance confirmations or pre-job-training in excess of 1 hour. Prior to finalizing the Purchase Order and the work schedule, Laguna will advise SUEZ of any pre-job or pre-mobilization requirements. Where these requirements exceed 1 hour, this time will be charged to Laguna at rates set out in the prevailing SUEZ labor rate sheet.
- ❑ Where certain short duration activities require two people for safety and the SUEZ Service representative is alone at site, Laguna will cooperate as required to assure that correct safety precautions are taken.
- ❑ Laguna is responsible for the following environmental provisions:
 - environmental use and discharge permits for all chemicals at Laguna's facility either listed in this document or proposed for use at a later date;

- any special permits required for Seller's or Laguna's employees to perform work related to the water treatment system at the facility;
 - all site testing, including soil, ground and surface water, air emissions, etc.;
 - disposal of all solid and liquid waste from the Seller's system including waste materials generated during construction, start up and operation.
- Laguna is responsible for provision of health and safety facilities to Seller's field service representatives to the same extent that they are provided to Laguna's own employees, including provision of:
- eyewash and safety showers in the water treatment area;
 - chemical spill response;
 - security and fire protection systems per local codes;

SUEZ

- All work on site will be performed in accordance with applicable law and will be performed reasonably, in a clean and safe manner. The SUEZ service representative will abide by the more stringent of the applicable health, safety and environmental policies and procedures of either Laguna or SUEZ.
- SUEZ will provide all applicable safety training required by SUEZ policies or by state or national health and safety regulations. The SUEZ service representative will have undergone workplace hazardous material information system (WHMIS) training and will come equipped with necessary personal protective equipment (PPE).
- Emergencies - In emergencies affecting the safety of persons, work or property at the site and adjacent thereto, SUEZ will act, without previous instructions from Laguna, as the situation warrants. SUEZ will notify Laguna immediately thereafter.

8 Seller's warranty - ZeeWeed membrane module

2-year full replacement – standard (ZW500D products)

This schedule sets out the warranty with respect to ZeeWeed membrane modules (“membrane modules”). No other warranties, expressed or implied are made in connection with the sale of these products, including, without limitation, warranties as to fitness for any particular purpose or use or merchantability of these products. The warranty provided herein will be the exclusive and sole remedy of Buyer, and in no event will the Seller be liable for any special, direct, indirect or consequential damages, including, without limitation, loss of profits. This warranty is not transferable.

1 product

This warranty applies to only the membrane modules supplied under the contract of sale. Membrane module means the fibers and the potted plastic headers. This warranty does not cover air piping to the membrane module, permeate piping from the membrane module, piping connection fittings, connecting hardware and cassette frames with their associated components including but not limited to spacers, aerator tubes, aerator assemblies, screen, module dummies or module blanks.

Identification: membrane modules are shipped by the Seller with a serial number identification which confirms their place in the cohort set of membrane modules covered by this membrane module warranty.

2 Seller

ZENON Environmental Corporation is the name of the Seller, and means a business component of, or legal entity within the SUEZ Water Technologies & Solutions business (SUEZ) which is selling ZeeWeed modules and is the Seller offering this warranty. The Seller may assign this warranty to other SUEZ affiliates.

3 Buyer

Buyer means County of Santa Barbara.

4 project

Project means the membrane modules sold under this proposal number 395847-2.

5 contract of sale

Contract of sale means the sales contract governing the sale of membrane module(s) for the project between Buyer and the Seller or its SUEZ affiliate.

6 scope of warranty

The Seller warrants that its membrane module(s) will be free of defects due to faulty materials or errors in manufacturing workmanship.

Regular membrane module inspection and normal fiber repair shall be the responsibility of Buyer.

All replacement membrane modules will be shipped on the basis of INCOTERMS 2010 FCA SUEZ manufacturing facility.

All ancillary costs including but not limited to bagging, boxing, crating, freight, freight insurance, applicable taxes, import duties, certifications, brokerage, receiving, forklift services, storage at site, reattachment hardware, hose/clamp/camlock replacement, crane services, installation, fiber repair materials, glycerin flushing, commissioning and waste disposal are the responsibility of Buyer.

full replacement – Full replacement means that in the case of a valid warranty claim for a membrane module failure, Buyer receives a replacement membrane module and does not pay for the value of use of the membrane module prior to failure.

prorated replacement – Prorated replacement means Buyer pays for actual use of a membrane module from which Buyer has derived value over time. Prorated replacement allows the Seller to pay reasonable compensation under warranty for any product use not enjoyed by Buyer due to premature failure.

The ratio of full replacement to prorated replacement in this warranty is set out in Item 8 of Section 0.

7 warranty start date

For the original membrane modules in a plant, this membrane warranty will start on the earlier of:

- a. The date that installation of the original membrane module(s) has been substantially completed, or
- b. Six months from the date of shipment of the original membrane module(s) to Buyer.

For replacement or expansion membranes, this membrane warranty will start on the earlier of:

- a. The date of installation, or
- b. 1 month from the date of delivery to site.

8 warranty duration

total warranty duration: a total of **24** months composed of a base period and an extended period.

base period with full replacement: **24** months

All purchasers of ZeeWeed membrane modules are entitled to this base period of full replacement warranty coverage without purchasing an extended Seller's warranty.

extended period with full replacement: a total of **0** months following the base period

Replacement membrane modules are covered by warranty only to the extent of the warranty of the original membrane module which has been replaced. At all events, this warranty shall expire and be of no force or effect **24** months following the warranty start date.

9 notification of claim

All claims filed under this warranty shall be made in writing by Buyer within 30 days of identifying a defect.

Buyer shall provide the following information:

- a. A description of the defect giving rise to the claim;
- b. Photographs showing the manufacturing defect;
- c. The serial number(s) of the membrane module(s) which is (are) the subject of the warranty claim; and
- d. Operating data and repair history for the life of membrane modules which are the subject of a warranty claim.

10 verification of claim

After receipt of written notification of a defect, the Seller will promptly undertake such investigations as, in the Seller's opinion, are necessary to verify whether a defect exists. The Seller reserves the right to require additional data as necessary to validate claims. Buyer may, in the course of these investigations, be requested to return membrane module(s) to the Seller for examination. The Seller may also conduct reasonable tests and inspections at Buyer's plant or premises. If the results of the investigation do not validate the defect claimed, Buyer will reimburse the Seller for all reasonable expenses associated with said investigation, including expenses for all tests, inspections, and associated travel.

11 satisfaction of claims

The Seller will have the right to satisfy claims under this warranty in a flexible manner. Such flexibility may include the repair of existing membrane modules or changes in operating protocols or membrane module replacement or by upgrading failed membrane modules with newer membrane module(s) that may embody design and efficiency improvements. Buyer consents to the supply of replacement membrane modules which may be of a different design than original membrane modules.

12 operating information

To maintain the membrane module warranty, membrane system operation records from initial start-up date until claim must be maintained by Buyer and made available to the Seller upon request. Records must be provided in sufficient detail to verify uninterrupted compliance with the Seller's operations and maintenance manual prepared by the Seller and supplied to Buyer as part of the contract. At a minimum, operation data must include information on feed water quality, temperatures, flows, trans-membrane pressures, aeration rates, permeate quality, cleaning intervals, cleaning chemical concentrations, elapsed time since start-up, relevant analytical data and reporting of any screen bypass events.

Buyer shall maintain and share access to a single reference copy in electronic form of a membrane module map containing the history of activity by membrane module. Buyer shall log its procedures performed related to a membrane module including relocation of membrane modules, repairs, replacements and any other noteworthy events.

Buyer authorizes the Seller to conduct any reasonable review of operation and maintenance records or to inspect facilities where membrane modules are installed, upon reasonable notice to Buyer. Such reviews and/or inspections are intended to also assist the Seller and Buyer in detection of membrane system faults and to optimize the care and operation of the membrane modules.

13 limitation of warranties

Occurrence of any of the following as reasonably determined by the Seller will void this warranty:

- a. A material failure to operate the membrane system in accordance with Seller's operations and maintenance manual supplied to Buyer as part of the contract, including material failure to adhere to the Seller's specified membrane module cleaning procedures and the use of anything other than Seller-approved membrane module cleaning agents.
- b. Failure to adhere to the preventive maintenance program as presented in the Seller's operations and maintenance manual, in published product manuals and in specifications.
- c. Failure to adhere to all transportation and module storage recommendations outlined by Seller.
- d. Failure to ensure correct operation and/or functioning of the screening equipment.
- e. Introduction of destructive foreign materials into the membrane module tanks. Destructive foreign materials may include natural or human-made materials that are introduced into the membrane system influent channel or tanks originating from construction and maintenance activities or from inadequate pretreatment or from aquatic species including clams and snails or from damage to the tank or tank coating. Buyer shall be responsible to maintain correct function of the screen mechanism, to flush accumulated grit from the tank bottom and to flush accumulated foreign materials from the membrane modules.
- f. Failure to install and maintain operating data acquisition and electronic data transmission functions at the plant.
- g. Physical abuse or misuse, incorrect removal or installation of membrane modules by non-Seller personnel including fiber damage caused by operator error in handling of membrane modules or cassettes.
- h. Unauthorized alteration of any components or parts originally supplied by the Seller.
- i. Intentional damage.

14 return procedure

In the event that the return of a membrane module is required pursuant to this warranty, Buyer will first obtain a return goods authorization (RGA) number from the Seller. Membrane module(s) shipped to the Seller for warranty examination must be shipped freight prepaid. If Buyer desires temporary replacement membrane module(s) to replace those alleged to be defective and returned to the Seller for warranty examination, Buyer shall be responsible for the cost associated with any such replacements until examination of the returned membrane modules pursuant to this warranty is complete. Any membrane module examined by Seller as part of a warranty claim where the membrane module is subsequently found to be performing as warranted or where a membrane module failure is not covered under the warranty will be returned to Buyer, freight collect.

9 terms and conditions of sale

a - specific terms and conditions of sale

These terms take precedence over the general terms and conditions of sale.

1 legal entity for contracting

ZENON Environmental Corporation is the name of the Seller, and means a business component of, or legal entity within the SUEZ Water Technologies & Solutions business (SUEZ) which is selling ZeeWeed modules.

Please advise us if this SUEZ entity is not set up in your purchasing system as a vendor and you do have another SUEZ entity set up. We are keen to make the purchase process as convenient as possible for Laguna.

short form: Where a short reference is required in this document, for convenience, we are called simply **SUEZ**.

2 payment terms

On approved credit, payment terms are net 30 days from customer receipt of invoice. Please see the invoicing schedule in the price section.

3 proposal validity

Prices quoted and proposal terms are valid up to thirty (30) days after the date of issue of this proposal unless confirmed with a purchase order.

4 flight booking

Prices quoted for installation which include airfare are either based on timely confirmation of a visit schedule or based on receipt of a purchase order in time to book any flights seven days in advance. Additional airfare charges related to late arrival of a purchase order will be extra and billed through to Laguna without mark-up.

5 purchase order guidelines

Please ensure that your purchase order has covered the following points. This will ensure accurate and prompt order entry, product delivery, invoicing and accounts receivables processing and will prevent administrative delays for all parties.

- legal entity** – Please be sure your purchase order is issued in the name of the specific SUEZ legal entity issuing this proposal cited above. We will be glad to work with your purchasing department to set this entity up as an approved supplier/vendor. Please advise us if this SUEZ entity is not set up in your purchasing system as a vendor and you do have another SUEZ entity set up.
- hard copy** – Our strong preference is to receive a hard copy of your purchase order rather than a PO number alone.
- proposal number and date** – Please reference the 6-digit proposal number and the proposal date which are found in the footer of each page.
- price** – State the total price you are accepting for this order.
- taxes** – Provide any required tax exemption certificates.
- ship-to address** – Please clearly define the plant site address or delivery location and the receiver's email & telephone. Please specify receiving hours and any special off-loading requirements.
- delivery date** – Please include your requested delivery date or agreement start date.
- purchase order** – Please send your purchase order to SUEZ by email to service.pocentral.wts@suez.com.

b – general terms and conditions of sale

SUEZ's standard terms and conditions apply. See attachment a

Note to purchasing agent: The SUEZ's standard set of commercial terms & conditions are written for moderate value transactions to allow an efficient and rapid provision of services and parts. Where corporate agreement terms have been previously agreed, these may be brought forward by either party and applied by mutual consent. If either of these terms sets are not immediately acceptable, please expect a typical 6-10 week cycle of mutual review to build agreement on changes.

10 signed agreement

Through the issue of this proposal, SUEZ signals their intent to enter into an agreement with Laguna. Laguna and SUEZ acknowledge that they have read and understood this agreement and agree to be bound by the terms and conditions specified in it.

offered by legal entity: ZENON Environmental Corporation, also known as SUEZ or Seller

accepted by legal entity: County of Santa Barbara also known as Laguna or Buyer

authorized signature by: _____

title: _____

signature date: _____

signature: _____

x

purchase order no: _____

Upon acceptance of this proposal, please forward the following either

• by email with .pdf attachments or • by postal mail or • by fax.

1) this signature page completed

to:

2) a hard copy of your purchase order, and

3) any required tax exemption certificates

service.pocentral.wts@suez.com

or

SUEZ Water Technologies & Solutions

attention: Contracts Administrator

Please contact

service.pocentral.wts@suez.com

for correct address

or

fax no.: 905 465 3030

This agreement comes into force when SUEZ has issued a formal acceptance of Laguna's Purchase order or formal acceptance of this Laguna signed agreement.

doc. control: author: RM filename: Laguna Tertiary 395847-2 20 x ZW500Ds 350ft² Feb 5 2020

last modified: 2/5/2020 10:03 AM technical review: ST (rev 0)

commercial review: NH (rev 0)

DOA: Blkt

attachment a SUEZ standard terms and conditions

general terms and conditions of sale

- 1. exclusive terms and conditions.** Together with any other terms the Parties agree to in writing, these General Terms and Conditions – together with the last proposal in order of time issued by the Seller – form the exclusive terms (“Agreement”) whereby Buyer agrees to purchase, and Seller agrees to sell products and equipment (jointly “Equipment”) and to provide advice, instruction and other services in connection with the sale of that Equipment (“Services”). If Buyer sends to Seller other terms and conditions to which Seller may not respond, including but not limited to those contained in Buyer’s purchase order, such shall not apply. This Agreement may only be revised by a change order approved in writing by both Parties. All terms not defined herein shall be defined in Seller’s proposal.
- 2. equipment and services.** The Equipment to be delivered and the Services to be provided shall be as set out in this Agreement. Unloading, handling, storage, installation, and operation of Buyer’s systems or the Equipment are the responsibility of Buyer. Buyer shall not require or permit Seller’s personnel to operate Buyer’s systems or the Equipment at Buyer’s site.
- 3. prices and payment.** Buyer shall pay Seller for the Equipment and Services in accordance with the payment schedule (as set forth in Seller’s proposal or, if applicable, in any special conditions agreed to in writing by the Parties). Unless otherwise specified in writing, payment is due net thirty (30) days from the date of Seller’s invoice. Seller may require a Letter of Credit or other payment guarantee, in which case the stated amount of the guarantee will be adjusted by Buyer in the event of any currency-based adjustment to prices or payment amounts per the Payment Schedule, and Buyer shall deliver the adjusted guarantee within five (5) days of request by Seller. Buyer agrees to reimburse Seller for collection costs, including 2% (two percent) interest per month (not to exceed the maximum amount permitted by applicable law), should Buyer fail to timely pay. Buyer shall have no rights to make any deduction, retention, withholding or setoff relating to any payments due under this Agreement.
- 4. taxes and duties.** Seller shall be responsible for all corporate taxes measured by net income due to performance of or payment for work under this Agreement (“Seller Taxes”). Buyer shall be responsible for all taxes, duties, fees, or other charges of any nature (including, but not limited to, consumption, gross receipts, import, property, sales, stamp, turnover, use, or value-added taxes, and all items of withholding, deficiency, penalty, addition to tax, interest, or assessment related thereto, imposed by any governmental authority on Buyer or Seller or its subcontractors) in relation to the Agreement or the performance of or payment for work under the Agreement other than Seller Taxes (“Buyer Taxes”). The Agreement prices do not include the amount of any Buyer Taxes. If Buyer deducts or withholds Buyer Taxes, Buyer shall pay additional amounts so that Seller receives the full Agreement price without reduction for Buyer Taxes. Buyer shall provide to Seller, within one month of payment, official receipts from the applicable governmental authority for deducted or withheld taxes. Buyer shall furnish Seller with evidence of tax exemption acceptable to taxing authorities if applicable, prior to execution of the Agreement by both Parties or issuance by the Seller of the order acceptance. Buyer’s failure to provide evidence of exemption at time of order will relieve Seller of any obligation to refund taxes paid by Seller.
- 5. delivery, title, risk of loss.** Unless otherwise specified in this Agreement, Seller shall deliver all Equipment to Buyer FCA (Incoterms 2010) Seller’s facility. The time for delivery of the Equipment to Buyer shall be specified in this Agreement. Seller’s sole liability for any delay in delivery of the Equipment shall be as expressly set out in this Agreement. The place of delivery specified herein shall be firm and fixed, provided that Buyer may notify Seller no later than forty-five (45) days prior to the scheduled shipment date of the Equipment of an alternate point of delivery, Buyer shall compensate Seller for any additional cost in implementing the change. If any part of the Equipment cannot be delivered when ready due to any cause not attributable to Seller, Buyer shall designate a climate-controlled storage location, and Seller shall ship such Equipment to storage. Title and risk of loss shall thereupon pass to Buyer and amounts payable to Seller upon delivery or shipment shall be paid by Buyer along with expenses incurred by Seller. Services provided herein shall be charged at the rate prevailing at the time of actual use and Buyer shall pay any increase, and Buyer shall pay directly all costs for storage and subsequent transportation. Failure by Buyer to take delivery of the Equipment shall be a material breach of this Agreement.

Title and risk of loss to the Equipment shall be transferred from Seller to Buyer at the point of delivery upon handover in accordance with this Agreement. Title and risk of loss to the Services shall pass as they are performed.

- 6. warranties and remedies.** Seller warrants that Equipment shall be delivered free from defects in material, workmanship and title and that Services shall be performed in a competent, diligent manner in accordance with any

mutually agreed specifications. Seller's warranty does not cover the results of improper handling, storage, installation, commissioning, operation or maintenance of the Equipment by Buyer or third parties, repairs or alterations made by Buyer without Seller's written consent, influent water which does not comply with agreed parameters, or fair wear and tear.

Unless otherwise expressly provided in this Agreement, the foregoing warranties are valid for:

- (a) chemicals and Services, for six (6) months from their date of delivery or the provision of Services;
- (b) consumables, including filters and spiral wound membranes (other than spiral wound membranes for process treatment), the earlier of twelve (12) months from date of first use or fifteen (15) months from their date of delivery;
- (c) spiral wound membranes for process fluid treatment, ninety (90) days from their date of first use;
- (d) ultrafiltration membranes (ZW500, ZW700B, ZW1000, ZW1500), twelve (12) months from their date of delivery;
- (e) Equipment other than chemicals and consumables, the earlier of, fifteen (15) months from delivery or shipment to storage, or twelve (12) months from start-up/first use;
- (f) software, ninety (90) days from the date of receipt;
- (g) Equipment not manufactured by Seller, the warranty shall be the manufacturer's transferable warranty only,

Any claim for breach of these warranties must be promptly notified in writing, and Buyer shall make the defective item available to the Seller, or the claim will be void. Seller's sole responsibility and Buyer's exclusive remedy arising out of or relating to the Equipment or Services or any breach of these warranties is limited to repair at Seller's facility or (at Seller's option) replace at Seller's facility the defective item of Equipment and re-perform defective Services. In performance of its obligations hereunder, Seller will not control the actual operation of either Buyer's systems or the Equipment at the Buyer's site.

Warranty repair, replacement or re-performance by Seller shall not extend or renew the applicable warranty period.

The warranties and remedies are conditioned upon (a) proper unloading, handling, storage, installation, use, operation, and maintenance of the Equipment and Buyer's facility and all related system in accordance with Seller's instructions and, in the absence, generally accepted industry practice, (b) Buyer keeping accurate and complete records of operation and maintenance during the warranty period and providing Seller access to those records, and (c) modification or repair of Equipment or Services only as authorized by Seller in writing. Failure to meet any such conditions renders the warranty null and void.

The Buyer will be entitled to assign to a subsequent owner of the Equipment the warranties of the Seller under this Agreement, provided that a prior written notification is sent to the Seller and the assignment agreement contains terms and conditions which provide the Seller with the protections of the warranties and limitations on liability contained in the Agreement. Subject to Buyer's compliance with the foregoing requirement, such warranty rights are expressly assignable by the Buyer to a subsequent owner of the Equipment. Except as provided herein, Buyer is not entitled to extend or transfer this warranty to any other party. The warranties and remedies set forth in this article are in lieu of and exclude all other warranties and remedies, statutory, express or implied, including any warranty of merchantability or of fitness for a particular purpose.

Unless otherwise expressly stipulated in this Agreement, Seller gives no warranty or guarantee as to process results or performance of the Equipment, including but not limited to product quality, flow, production, capacity, membrane life, chemical consumption, regulatory compliance or energy consumption.

7. general indemnity. Seller shall indemnify and hold harmless Buyer from claims for physical damage to third party property or injury to persons, including death, to the extent caused by the negligence of Seller or its officers, agents, employees, and/or assigns while engaged in activities under this Agreement. Buyer shall likewise indemnify and hold harmless Seller from claims for physical damage to third party property or injury to persons, including death, to the extent caused by the negligence of the Buyer, its officers, agents, employees, and/or assigns. In the event such damage or injury is caused by the joint or concurrent negligence of Seller and Buyer, the loss shall be borne by each Party in proportion to its negligence. For the purposes of this article (i) "Third party" shall not include Buyer or any subsequent owner of the Equipment, their subsidiaries, parents, affiliates, agents, successors or assigns including any operation or maintenance contractor, or their insurer; and (ii) no portion of the Equipment is "third party property".

8. compliance with laws and permits. All permits, authorizations, and licenses which are required to construct, install and/or operate Buyer's facility or equipment, to use the Equipment, or to manage and dispose of any wastes, discharges, and residues resulting from Buyer's use of the Equipment, shall be obtained and maintained by Buyer at Buyer's sole expense. Buyer is responsible for compliance with all laws and regulations applicable to the storage, use,

handling, installation, maintenance, removal, registration, and labeling of all Equipment after delivery of the Equipment, as well as for the proper management and disposal of all wastes, discharges, and residues.

9. buyer's site conditions. Buyer warrants that any data furnished to the Seller concerning conditions at Buyer's site (including but not limited to any existing Buyer facility, equipment or processes, influent water or other substances to be treated or measured with the Equipment) is accurate and complete, and the Seller reserves the right to utilize the most appropriate design compatible with generally accepted engineering practices, and to make changes in details of design, manufacture and arrangement of Equipment unless precluded by any limitations specified in this Agreement. Seller shall notify Buyer of (1) any conditions at Buyer's site which materially differ from those indicated in the data furnished by Buyer, (2) any previously unknown physical conditions at Buyer's site of an unusual nature, not revealed by previous investigations and differing from those ordinarily encountered in the type of work provided for in this Agreement, and (3) the presence of any Hazardous Materials (as defined below), the existence of a contaminated soil, unexploded ordinance, or archaeological remains. If such conditions cause an increase in Seller's cost or in the time required for the performance of Seller's obligations, Seller shall be entitled to an equitable adjustment in the Agreement price and an extension in the time for performance.

10. hazardous materials and wastes. In the event that Seller encounters any Hazardous Materials (meaning toxic substances, hazardous substances, pollutants, contaminants, regulated wastes, or hazardous wastes as such terms may be defined or classified in any law, statute, directive, ordinance or regulations promulgated by any applicable governmental entity) at Buyer's site, other than Hazardous Materials introduced by Seller or that are otherwise the express responsibility of Seller under this Agreement, Buyer shall immediately take whatever precautions are required to legally eliminate such Hazardous Materials so that the Seller's work under this Agreement may safely proceed. At no time shall Seller be deemed to have taken title to or the responsibility for the management or disposal of any wastes, Hazardous Materials, influent water, any resultant product streams, wastewater streams, discharges, cleaning materials, or any other materials or substances processed by the Equipment or otherwise located at Buyer's site. Seller does not take responsibility for and hereby expressly disclaims responsibility for the characterization or disposal of wastes, Hazardous Materials, or for the identification, selection, or management of disposal facilities for any wastes.

11. excusable delays. Seller shall not be liable nor in breach or default of its obligations under this Agreement to the extent performance of such obligations is delayed or prevented, directly or indirectly, due to causes beyond the reasonable control of Seller, including, but not limited to: acts of God, natural disasters, unusually severe weather, fire, terrorism, war (declared or undeclared) epidemics, material shortages, insurrection, act (or omissions) of Buyer or Buyer's contractors/suppliers or agents, any act (or omission) by any governmental authority, strikes, labor disputes, transportation shortages, or vendor non-performance. The delivery or performance date shall be extended for a period equal to the time lost by reason of delay or non-performance, plus such additional time as may be necessary to overcome the effect of the delay or non-performance. If delivery or performance is delayed for a period exceeding 180 (one hundred and eighty) days, either Party may terminate this Agreement without further liability provided that Seller shall be paid an amount equal to that which would be payable to Seller under the article entitled "Termination". If Seller is delayed by any acts (or omissions) of Buyer, or by the prerequisite work of Buyer's other contractors or suppliers, Seller shall be entitled to an equitable adjustment in schedule, price and/or performance, as applicable.

12. emergencies. If the safety of Seller's personnel is threatened or likely to be threatened by circumstances outside the reasonable control of Seller, including but not limited to war, armed conflict, civil unrest, riots, terrorism, kidnapping, presence of or exposure to hazardous materials, unsafe working conditions, or by the threat of such circumstances or a lack of adequate protections against such circumstances, Seller shall be entitled to take all necessary steps to ensure the security and safety of its personnel including the evacuation of personnel until such circumstances no longer apply. Any such occurrence shall be considered an excusable delay event. Buyer shall reasonably assist in the event of any such evacuation.

13. confidentiality, intellectual property. Both Parties agree to keep confidential the other Party's proprietary non-public information, if any, which may be acquired in connection with this Agreement. Buyer will not, without Seller's advance written consent, subject Equipment to testing, analysis, or any type of reverse engineering. Seller retains all intellectual property rights including copyright which it has in all drawings and data or other deliverables (including the Equipment) supplied or developed under this Agreement. Buyer agrees that it will not file patent applications on the Equipment or any development or enhancement of the Equipment, or of processes and methods of using the Equipment, without Seller's express prior written permission. Buyer further agrees that in any event any such patents will not be asserted against Seller or its other buyers based upon purchase and use of such Equipment. Seller grants to Buyer a non-exclusive, non-terminable, royalty free license to use the intellectual property embedded in Equipment delivered to and paid for by the Buyer, as well as any drawings, design or data delivered to and paid for by the Buyer, for the purposes of owning, financing, using, operating and maintaining the relevant Equipment at Buyer's site. Such license may only be assigned to a subsequent owner of the Equipment or to an operations and maintenance

subcontractor. Such license does not extend to the re-creation of the Equipment or the manufacture of spares or consumables by Buyer or third parties.

Any software Seller owns and provides pursuant to this Agreement shall remain Seller's property. Seller provides to Buyer a limited, non-exclusive and terminable royalty free project-specific license to such software for the use, operation or maintenance at Buyer's site of any Equipment purchased hereunder to which the software is a necessary component. Buyer agrees not to copy, sub-license, translate, transfer, reverse engineer, or decode the software.

Seller shall indemnify and hold harmless Buyer from any rightful claim of any third party that any Equipment or Service infringe a patent in effect in the USA, or country of delivery (provided there is a corresponding patent issued by the USA), or USA copyright or copyright registered in the country of delivery. If the Buyer notifies the Seller promptly of the receipt of any such claim, does not take any position adverse to the Seller regarding such claim and gives the Seller information, assistance and exclusive authority to settle and defend the claim, the Seller shall, at its own expense and choice, either (i) settle or defend the claim and pay all damages and costs awarded in it against the Buyer, or (ii) procure for the Buyer the right to continue using the Equipment or Service, or (iii) modify or replace the Equipment or Service so that it becomes non-infringing, or (iv) remove the infringing Equipment and refund the price. The above paragraph shall not apply to any misuse of Equipment or Equipment which is manufactured to the Buyer's design, or to alleged infringement arising from the combination, operation, or use of any Equipment or Services with other equipment or services when such combination is part of any allegedly infringing subject matter. The foregoing list of sub-sections (i), (ii), (iii), and (iv) and related terms state the entire liability of the Seller for intellectual property infringement by any Equipment or Service.

14. limitations on liability. Notwithstanding anything else contained in this Agreement, to the maximum extent permitted by law, and regardless of whether a claim is based in contract (including warranty or indemnity), extra-contractual liability, tort (including negligence or strict liability), statute, equity or any other legal theory:

- (a) THE TOTAL LIABILITY OF THE SELLER AND OF ITS INSURER FOR ALL CLAIMS ARISING OUT OF OR RELATING TO THE PERFORMANCE OR BREACH OF THIS AGREEMENT OR USE OF ANY EQUIPMENT OR SERVICES SHALL NOT EXCEED THE TOTAL PRICE PAID BY BUYER UNDER THIS AGREEMENT OR (IN THE CASE OF AN AGREEMENT FOR SERVICES WITH A TERM OF MORE THAN ONE YEAR) THE ANNUAL PRICE PAYABLE BY BUYER UNDER THIS AGREEMENT;
- (b) IN NO EVENT SHALL SELLER BE LIABLE FOR ANY LOSS OF PROFIT OR REVENUES, LOSS OF PRODUCTION, LOSS OF USE OF EQUIPMENT OR SERVICES OR ANY ASSOCIATED EQUIPMENT, INTERRUPTION OF BUSINESS, COST OF CAPITAL, COST OF REPLACEMENT WATER OR POWER, DOWNTIME COSTS, INCREASED OPERATING COSTS, CLAIMS OF BUYER'S CUSTOMERS FOR SUCH DAMAGES, OR FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, INDIRECT, PUNITIVE OR EXEMPLARY DAMAGES;
- (c) SELLER'S LIABILITY SHALL END UPON EXPIRATION OF THE APPLICABLE WARRANTY PERIOD, PROVIDED THAT BUYER MAY CONTINUE TO ENFORCE A CLAIM FOR WHICH IT HAS GIVEN NOTICE PRIOR TO THAT DATE BY COMMENCING AN ACTION OR ARBITRATION, AS APPLICABLE UNDER THIS AGREEMENT, BEFORE EXPIRATION OF ANY STATUTE OF LIMITATIONS OR OTHER LEGAL TIME LIMITATION BUT IN NO EVENT – TO THE EXTENT PERMITTED BY APPLICABLE LAW – LATER THAN FIVE (5) MONTHS AFTER EXPIRATION OF SUCH WARRANTY PERIOD.

For the purposes of this article, "Seller" shall mean Seller, its affiliates, subcontractors and suppliers of any tier, and their respective agents and employees, individually or collectively. If Buyer is supplying Seller's Equipment or Services to a third party, Buyer shall require the third party to agree to be bound by this article. If Buyer does not obtain this agreement for Seller's benefit for any reason, Buyer shall indemnify and hold Seller harmless from all liability arising out of claims made by the third party in excess of the limitations and exclusion of this article.

15. termination. This Agreement and any performance pursuant to it may be terminated by either Party, and the consequences of such termination shall be as set out in the next paragraph, if the other Party

- (a) becomes insolvent, makes an assignment for the benefit of its creditors, has a receiver or trustee appointed for the benefit of its creditors, or files for protection from creditors under any bankruptcy or insolvency laws; or
- (b) fails to make any payment when due or to establish any payment security required by this Agreement or commits a material breach or defaults in its material obligations under this Agreement, and such default is not cured within thirty (30) days of written notice from the other Party.

Upon the termination of this Agreement by Buyer for cause (i) Seller shall reimburse Buyer the difference between that portion of the Agreement price allocable to the terminated scope and the actual amounts reasonably incurred by Buyer

to complete that scope, and (ii) Buyer shall pay to Seller (a) the portion of the Agreement price allocable to Equipment completed, and (b) amounts for Services performed before the effective date of termination. Upon the termination of this Agreement by Seller for cause Buyer shall pay to Seller within thirty (30) days of receipt of invoice the price of all Equipment or Services delivered at the date of termination, plus an amount equal to all costs and expenses incurred in the engineering, sourcing, financing, procurement, manufacture, storage and transportation of the Equipment including materials, work in progress and any cancellation charges assessed against Seller by Seller's suppliers including reasonable overhead and profit on all such costs and expenses. Alternatively, if any schedule of termination payments has been agreed between the Parties, Buyer shall pay to Seller within thirty (30) days of receipt of invoice the amounts set out in that schedule.

Seller shall have the right to suspend performance upon written notice to Buyer in any case where Seller would have the right to terminate the Agreement under this article, without prejudice to Seller's right to terminate this Agreement for cause. Any cost incurred by Seller in accordance with any such suspension (including storage costs) shall be payable by Buyer upon submission of the Seller's invoice(s). Performance of the Seller's obligations shall be extended for a period of time reasonably necessary to overcome the effects of such suspension.

16. governing law, dispute resolution. This Agreement shall be governed by the substantive laws of the State of California. In the event of a dispute concerning this Agreement, the complaining Party shall notify the other Party in writing thereof. Management level representatives of both Parties shall meet at an agreed location to attempt to resolve the dispute in good faith. Should the dispute not be resolved within thirty (30) days after such notice, the complaining Party shall seek remedies exclusively through arbitration. The seat of arbitration shall be the federal district court closest to the Buyer and the rules of the arbitration will be the Commercial Arbitration Rules of the American Arbitration Association, which are incorporated by reference into this article.

Notwithstanding the foregoing, each Party shall have the right to commence an action or proceeding in a court of competent jurisdiction, subject to the terms of this Agreement, in order to seek and obtain a restraining order or injunction to enforce the confidentiality intellectual property provisions set forth in the first two paragraphs of article 13; nuclear use restrictions set forth in article 17, or to seek interim or conservatory measures not involving monetary damages.

17. no nuclear use. Equipment and Services sold by Seller are not intended for use in connection with any nuclear facility or activity, the Buyer warrants that it shall not use or permit others to use the Equipment or Services for such purposes, without the advance written consent of Seller. If, in breach of this, any such use occurs, Seller (and its parent, affiliates, suppliers and subcontractors) disclaims all liability for any nuclear or other damage, injury or contamination, and, in addition to any other rights of Seller, Buyer shall indemnify and hold Seller (and its parent, affiliates, suppliers and subcontractors) harmless against all such liability.

18. export control. Seller's obligations are conditioned upon Buyer's compliance with all USA and other applicable trade control laws and regulations. Buyer shall not trans-ship, re-export, divert or direct Equipment (including software and technical data) other than in and to the ultimate country of destination declared by Buyer and specified as the country of ultimate destination on Seller's invoice.

19. changes. Each Party may at any time propose changes in the schedule or scope of Equipment or Services. All changes to the Equipment or Services shall be subject to mutual agreement via a written change order or variation, which shall only become effective once signed by both Parties. The scope, Agreement price, schedule, and other provisions will be equitably adjusted to reflect additional costs or obligations incurred by Seller resulting from a change, after Seller's proposal date, in Buyer's site-specific requirements or procedures, or in industry specifications, codes, standards, applicable laws or regulations. It shall be acceptable and not considered a change if Seller delivers Equipment (including Equipment replacement under warranty) that bears a different, superseding or new part or version number compared to the part or version number listed in the Agreement, provided that in no circumstance shall this affect any other of Seller's obligations including those set forth in article 6.

20. conflicts; survival, assignment. If there is any conflict between this Agreement and any written proposal or quotation provided by Seller, then the terms and conditions set forth in this Agreement shall prevail. If any term or condition of this Agreement or any accompanying terms and conditions are held invalid or illegal, then such terms and conditions shall be reformed to be made legal or valid, or deleted, but the remaining terms and conditions shall remain in full force and effect, and this Agreement shall be interpreted and implemented in a manner which best fulfills Parties' intended agreement. Those provisions which by their nature remain applicable after termination shall survive the termination of this Agreement for any reason. Seller may assign or novate its rights and obligations under the Agreement, in whole or in part, to any of its affiliates or may assign any of its accounts receivable under this Agreement to any party without Buyer's consent, and the Buyer hereby agrees, by signing this Agreement, to such assignment and to execute any document that may be necessary to complete Seller's assignment or novation. This Agreement shall not

otherwise be assigned by either Party without the other Party's prior written consent, and any assignment without such consent shall be void.

Seller may (i) manufacture and source the Equipment and any part thereof globally in the country or countries of its choosing; and (ii) may subcontract portions of the Services, so long as Seller remains responsible for such.

21. no third party beneficiary. Except as specifically set forth in the article entitled "Limitations on Liability" and "No Nuclear Use", this Agreement is not intended to, and does not, give to any person who is not a party to this Agreement any rights to enforce any provisions contained in this Agreement.

22. entire agreement. This Agreement embodies the entire agreement between Buyer and Seller and supersedes any previous documents, correspondence or agreements between them. No modification, amendment, revision, waiver, or other change shall be binding on either Party unless agreed in writing by the Party's authorized representative. Any oral or written representation, warranty, course of dealing, or trade usage not specified herein shall not be binding on either Party. Each Party agrees that it has not relied on, or been induced by, any representations of the other Party not contained in this Agreement