Table 1: Technology overview - Summary - Technical Details



		·····, ····						Annex Page 1 of 5	BASEL CONVENTION
Waste Treatment Facility	Technology	Test Date/s	Scale +	Pesticide Component Treated	Other Compound Treated	Validation Project Experience	Applicability Ranking	Additional Remarks	Others
Nufarm Limited	PLASCON Plasma Arc	01/03/1992	F	2,4-D waste products and Chlorophenols byproducts from herbicide manufacture.	Treated		DA	March 1992 the world first commercial plasma arc waste destruction unit commenced operation on-line at Nufarm Limited located in Melbourne	
SRL Plasma Pty. Ltd.	PLASCON Plasma Arc	28/01/1997 - 11/06/1997	F		Halons CFCs		DA	Commissioning and treatability trials conducted under Victorian Environmental Protection Agency's Research, Development and Demonstration Approval No: RD 28055 for the destruction of ozone depleting substances. In excess of 70 tonnes of Halon 1211 destroyed during this period. DE ranged from 99.9999% to 99.9981%. Commercial operation approved October 1997.	
SRL Plasma Pty. Ltd.	PLASCON Plasma Arc	24/05/1999 - 15/09/1999	F	HCB;α-HCB; Lindane; Heptachlor; Aldrin; β- BHC; δ-BHC; Heptachlorepoxide; DDT; DDD; DDE; Dieldrin; Chlordane; Endosulphan; Endrin aldehyde.				Treatability Trial - Victorian EPA Research, Development and Demonstration (RD&D) Approval, number RD 37847, on 22 March 1999. This approval is for the destruction of organochlorine basec pesticide mixtures, both with and without arsenic compounds. The location of the trial program is at premises situated at Beachley St., Tottenham in accordance with EPA Licence EI 33267 issued on 28 October 1997. PCDDs & PCDFs I- TEQ 0.0212 ng/Nm3 including LOD values. All pesticides tested for were below detection limits. DEs of 99.9999% or better were achieved for all trials	
BCD Technologies Pty. Ltd.	PLASCON Plasma Arc	13/10/1997 - 28/11/1997	F		PCBs		DA	Commissioning and treatability trials. Plant operating under a R&D licence issued by Queensland Environmental Protection Authority. 7500 Kg of Aroclors destroyed.	
BCD Technologies Pty. Ltd.	PLASCON Plasma Arc	02/03/1998	F		PCBs		DA	Validation trials conducted prior to granting of a commercial operating licence by the Queensland Environmental Protection Agency. Queensland EPA Licence SR674 endorsed for commercial PLASCON treatment of PCBs July 1998.	
BCD Technologies Pty. Ltd.	PLASCON Plasma Arc	01/09/1998 - 01/12/1999		DDT,DDE, Methoxychlor, Endrin aldehyde, Dieldrin, Endosulfan, Chlordane, Heptachlor, BHC, HCB, Aldrin, Dichlorvos, Dimethoate, Diazinon, Chloropyrifos, Malathion, Fenthion, Parathion, Pyrimiphos, Chlorfenvinphos, Ethion, 2,4 D, 2,4,5 T, DCMA			DA	Treatability and validation trials conducted using PLASCON destroying a mixture of commercial OCPs. & OPPs. DE for all trials were 99.99997% or better. Queensland EPA Licence SR674 endorsed for the commercial destruction of OCPs & OPPs. During these trials 2500Kg of OCPs & OPPs were destroyed.	

BCD Technologies Pty. Ltd.	PLASCON Plasma Arc	04/10/2000		F		PCBs	Plascon DE Trials for	DA	Feed Stock Aroclor 1254 (65%	
0 9							Prospective Japanese		Aroclor 1254 35% TCB), Trials	
							Customer		witnessed/validated by Mitsubishi	
							Customer		Chamical Corporation Decomposition	
									Chemical Corporation Personnel.	
									DEs of 99.99999% or better were	
									achieved.	
									Total(PCDFs+PCDDs+Coplanar	
									PCBs) L TEO 0.05 ng/Nm2	
									including LOD values	
									including LOD values.	
BCD Technologies Pty. Ltd.	PLASCON Plasma Arc	18/10/2000		F		PCBs	Plascon DE Trials for	DA	Feed Stock Aroclor 1254 (65%	
							Prospective Japanese		Aroclor 1254 35% TCB). Trials	
							Customer		witnessed/validated by Mitsubishi	
									Chomical Corporation Porconnol	
									DEa of 00 00000% or bottor ware	
									DEs of 99.99999% or better were	
									achieved.	
									Total(PCDFs+PCDDs+Coplanar	
									PCBs) I -TEQ 0.03 na/Nm3	
									including LOD values	
DOD Taskaslasias Dhu Ltd	DI ACCONI DISSUES AND	10/10/0000		-		DOD-	Discours DE Trisla (en		Freduling EOD values.	
BCD Technologies Pty. Ltd.	PLASCON Plasma Arc	19/10/2000		F		PCBS	Plascon DE Triais for	DA	Feed Stock Arocior 1242. Triais	
							Prospective Japanese		witnessed/validated by Mitsubishi	
							Customer		Chemical Corporation Personnel.	
									DEs of 99.99999% or better were	
									achioved	
									Total(PCDFs+PCDDs+Coplanar	
									PCBs) I -TEQ 0.03 ng/Nm3	
									including LOD values.	
BCD Technologies Ptv. Ltd.	PLASCON Plasma Arc	10/10/2001-11/10/2001		F		PCBs	Plascon DE Trials for	DA	Feed Stock Aroclor 1242 50%w/w	
		10,10,2001 11,10,2001		•		. 020	Japanoso Customor	271	in Korosono matrix, Throa (3) triale	
							Sapariese Customer		In Relosene matrix. Three (5) thats	
									conducted.	
									Total(PCDFs+PCDDs+Coplanar	
									PCBs) I -TEQ 0.0119 - 0.0205	
									ng/Nm3 including LOD values DE	
									of groater than 99 99999%	
	DI AGGONI DI A	0/11/00001 15/11/00001				TOD	DI DI I			
BCD Technologies Pty. Ltd.	PLASCON Plasma Arc	9/1/2004 - 15/1/2004		F		TCBs	Plascon Plants	DA	Feed Stock Trichlorobenzene 50%	
							commissioning trials		in hydrocarbon matrix. Twelve (12)	
							prior to export to Japan		hour DE trials. DEs 99.999991 -	
									99 999992%	
									00.00000E/0	
DASCEM Europe Limited	PLASCON Plasma Arc	19/11/2003		F		Halons; CFCs	Technology Validation	DA	Validation trials conducted prior to	
							Trials		granting of a commercial UK	
									operating licence. Commercial	
									operating licence. Commercial	
									operating licence granted in	
									February 2004. DEs greater than	
									99.9999% achieved.	
									Total(PCDFs+PCDDs) I-TEQ <	
									0.0024 pg/L including LOD values	
									0.0024 pg/E including EOD values.	
				_						
Mitsubishi Chemical	PLASCON Plasma Arc	May 2004 - July 2004		F		PCBs		DA	Destruction of stockpiled PCBs	
Corporation Yokkaichi Japan		1	1		1	1			50% in hydrocarbon matrix. 100	1
									tonnes mixture destroyed from May	/
									2004 15 July 2004 DE better the	
									2004 - 15 July 2004. DE beller that	1
									99.999999%.After flare, total	
									(PCDFs+PCDDs+Coplanar PCBs)	
									I -TEQ < 0.01 na/Nm3 includina	
									I OD values	
		1	1		1				Total/PODEs, PODDa, Conference	1
		1	1		1					1
	1	1	1		1	1			PCBs) in aqueous effuent I-TEQ	<
		1	1		1				0.01 pg/L including LOD values.	1
	1	1	1		1					1
			1		1					1
+ Key: F - Full Scale Applic	ation completed					"++Key: Applica	ability ranking for pesticide	S		
P - Pilot/Demonstration scale completed; no F-applications						DA - Directly ap	plicable			
B - Bench/Laboratory scale completed: no P or F-applications						FS 1 - Full scal	e within reasonable period	possible 0-2 v	vears	
I - Theoretical annihicable on B PE-annihications						ES 2. Full agels within providerable paried page/like page/like page/like				
I inconcision approvancy, ID D, I i "applications"						rs 2 - run scare Within considerable period possible 2-3 years				
venuor ciams penormatice or demonstration, but no data provideu						Validation on the basis of into provided in Table 2 and 3				
John Vijgen, International HCH and Pe	esticides Association and Dr.Ir. Ror	n McDowall, Auckland New Zealand j	for Secretariat of the Basel Convention	n, Date 01.09.08		ł				Anney Degs O -1 5
Tables in the Annex have been supplied	by BCD reconologies Pty Ltd									Annex Page 2 0f 5

Table 2: Overview project experience per technology supplier



Location/Project	Contaminants	Amount Treated in	Results Including DE, Pre-treatment, Post Treatment, Emissions, Energy Consumptions & Costs	Client References Name, Address, Contact Person, Phone, E-mail, Facsimile		
		Tonnes				
Nufarm Limited Laverton Victoria Australia - Routine Operations and Regulatory Testing	Dichlorophenols;Dichlorophenoxy acetic acids in a hydrocarbon matrix	>1000 tonnes chlorophenols & chlorophenoxy acetic acids	DE greater than 99.9999% achieved. Total(PCDFs+PCDDs+Coplanar PCBs) I -TEQ 0.006 - 0.009 ng/Nm3 including LOD values.	Refer Table 4		
SRL Plasma Ply. Ltd. Tottenham Victoria Australia Routine Operations and Regulatory Testing	Halon & CFCs	> 2200 tonnes Halons & CFCs	DE ranged from 99.9999% to 99.9981%. Total(PCDFs+PCDDs+Coplanar PCBs) I -TEQ 0.06 ng/Nm3 including LOD values.	Refer Table 4		
BCD Technologies Pty. Ltd. Narangba Queensland Australia - Routine Operations and Regulatory Testing	PCBs; POPs; Chlorinated Solvents; Mercaptans; ODS materials	> 1200 tonnes of liquid PCBs, OCPs & OPPs	DE greater than 99.99999% achieved. Total(PCDFs+PCDDs+Coplanar PCBs) I -TEQ 0.01 - 0.019 ng/Nm3 including LOD values.	Refer Table 4		
DASCEM Europe Limited Peterlee County Durham UK - Routine Operations and Regulatory Testing	Halons & CFCs		DE greater than 99.9999%. Total(PCDFs+PCDDs+Coplanar PCBs) I -TEQ < 0.0024 ng/Nm3 including LOD values.	Refer Table 4		
Mitsubishi Chemical Corporation Yokkaichi Japan	PCBs in Hydrocarbon Matrix	> 100 tonnes	DE better than 99.999999%. After flare, total (PCDFs+PCDDs+Coplanar PCBs) I -TEQ < 0.01 ng/Nm3 including LOD values. Total(PCDFs+PCDDs+Coplanar PCBs) in aqueous effuent I -TEQ < 0.01 pg/L including LOD values.	Refer Table 4		
John Viigen International HCII J.D.	actividas Association and Dr. I. Pon McDowall Avallar J. Nov. 7- Jon J.	Secretariat of the Pagel Convention Date 01.00.00	1			
All tables in the Annex have been suppl	lied by BCD Technologies Pty Ltd	Secretariat of the Basel Convention, Date 01.09.08		Annex Page 3 of 5		



Table 3: Overview detailed project information per project - Project name (from Table 2)

Location/Project	Pre Treatment mg/kg	Post Treat	tment mg/kg	DEs	Emissions 1. Air (HCl, Dioxins & Furans etc.) 2. Water 3. Waste (slags)	Client References Name, Address.	Energy Consumption	Costs (Capital, Operating Costs)
BCD Technologies Pty. Ltd. Narangba Queensland Australia - Routine Operations and Regulatory Testing	(2001) 50% w/w PCBs in Hydrocarbon matrix containing 564900 ng/g Dioxins (2002) PCB/Kerosene Mixture containing 441000000ng/g PCBs 61000 ng/g Dioxins	(2001) Aqueous Effluent including LOD values. 39.1pg/L including LOD values. Aqueous Effluent	Total PCBs I-TEQ 10.5 pg/L Total(PCDFs+PCDDs) I -TEQ (2002)	DEs greater than 99.99999%	DE greater than 99.99999% achieved. (2001) Total(PCDFs+PCDDs) I -TEQ 0.010 - 0.019 ng/Nm3 including LOD values. (2002) Total (PCDFs+PCDDs) I-TEQ 0.00 - 0.05 ng/Nm3 including LOD values No slag produced Particulate Matter 0.013 - 0.021 g/min HCl <1mg/m3 at NTP	Refer Table 4		Standard 150KW PLASCON Plant approx. \$USD 1 million. Operating & Maintenance Costs \$USD 1.50 per Kg for Schedule Wastes
BCD Technologies Pty. Ltd. Narangba Queensland Australia - 12 Hour Commissioning Trials Japanese Plants	January 2004 TCB in Kerosene Mixture <i>Plant 1- 4</i> 590 - 670g/L 1,2,4 Trichlorobenzene	Aqueous - all plants < 1.0 μg/L		DEs: Plant1 99.999991% Plant2 99.999992% Plant3 99.999992% Plant4 99.999991%		Refer Table 4		
Mitsubishi Chemical Corporation Yokkaichi Plant Japan	May - July 2004 Feed Stock PCBs 50%w/w. In excess of 100 tonnes destroyed during this period	d Aqueous - all plants typically (PCDFs+PCDDs+Coplanar PCBs)	Total) I-TEQ < 0.01pg/L	DEs greater than 99.999999%	After flare Tota (PCDDs+PCDFs+Coplanar PCBs) I- TEQ < 0.01 ng/Nm3	al Refer Table 4		
SRL Plasma Pty. Ltd. Tottenham Victoria Australia	January - June 1997 Feed Stock Halons & CFCs 70 tonnes destroyed			DEs 99.9999% - 99.9981%	Typical Total (PCDDS+PCDFs) I-TEQ 0.006 ng/Nm3 including LOD values	Refer Table 4		
Dascem Europe Peterlee County Durham United Kingdom	November 2003 Feed Stock Halon 1211	M.D. well And the Alter Zealer for Secretari	tet of the Parcel Community Parts 01 00 08	DEs greater than 99.9999%	Total (PCDDS+PCDFs) I-TEQ 0.0024 ng/Nm3 HCI < 0.12 mg/Nm3	Refer Table 4		
Tables in the Annex have been supplied	d by BCD Technologies Pty Ltd	menowau, nuchana new Zealana for Secretari	ai oj ine basei Convention, Date 01.09.08					

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Table 4: Client References for Plascon Plants in Australia



Organisation	Contact			Description / Notes			
Queensland Environment			- General knowledge of BCD Technologie	s' operations and licencing			
Protection Agency	Dr. Faiz Khan - Env. Policy & Economic Division		ç				
0,	12th Floor 160 Ann Street						
	Brisbane Queensland 4002 Australia						
	Telephone: +61 7 3227 7349						
	Facsimile: +61 7 3227 8341						
	E-mail: faiz.khan@env.qld.gov.au						
	Mr. Gary O'Connor						
	Chief Scientific Advisor, Hazardous Wastes		- Queensland EPA Licencing for Environm	nental Operations			
	12th Floor 160 Ann Street						
	Brisbane Queensland 4002 Australia						
	Telephone: +61 7 3225 1455						
	Facsimile: +61 7 3227 7677						
	E-mail: gary.oconnor@env.qld.gov.au						
Victorian Environmental	Mr. Bruce Dawson - Manager						
Protection Agency							
	West Metropolitan Region						
	Environment Protection Authority						
	GPU Box 4395QQ Melhauraa Vietaria Australia 2001						
	Telephone victoria Australia 3001						
	Feesimile: +61 2 0628 5052						
BCD Technologies Pty 1 td	Facsiffile. +01 3 9020 5055						
BOD Technologies Tity. Etd.	BCD Technologies Pty 1 td		- POPs and ODS destruction facilities				
	PO Box 119						
	Narangba Queensland 4504 Australia		BCD Technologies has operated a Plascon	Plant since 1996 for the destruction of CECs and Halons. A second Plascon has operated since 1997 for the			
	Telephone: +61 7 3203 3400		destruction of PCBs. Organochlorine Pestici	des and chlorinated wastes.			
	Eacsimile: +61 7 3203 3450						
	E-mail: bcdt@gil.com.au						
Mitsubishi Chemical	Mr. Kohei Sarumaru - Associate Director		- Chemical Manufacturer				
Corporation	Mitsubishi Chemical Corporation						
	5-2, Marunouchi 2-chrome,		Mitsubishi Chemical Corporation operates for	our (4) PLASCON plants at Yokkaichi Japan. The PLASCON plants, following successful commissioning and the granting			
	Chiyoda-ku Tokyo 100-0005 Japan		granting of operational approval by the Prov	incial Government and Technical Committee under the Ministry of Environment Japan, are destroying stockpiled PCB wa			
	E-mail: sarumaru.kohei@mb.m-kagaku.co.jp		PCB wastes. Since operational approval wa	s granted in late April 2004 until the present time (July 2004) in excess of 100 tonnes of PCB mixture -			
	Telephone: 81-3-3283-6770		(50%w/w PCBs in a hydrocarbon matrix) ha	ve been successfully destroyed.			
	Facsimile: 81-3-3283-6459						
	Mr. Teruyuki Ono General Manager						
	PCB Treatment Planning Department						
	Mitsubishi Chemical Corporation						
	Yokkaichi Plant, 1 Toho-cho						
	Yokkaichi, Mie 510-8530 Japan						
	Telephone: 0593-45-7098						
	Facsimile: 0593-45-7046	<u> </u> or (Suntto do Ing. do Brog					
Quimobasicos, S.A. de C.V.	Quimobásicos SA do CV. Division Quimica	er (Supite de Ing. de Proc	- Chomical Manufacturor, including Rofrig	orant HCEC 22			
	Ave Buiz Cortines 2333 Pte Col Pedro Lozano		- Gremica Manufacturer, including Relfig				
	Monterrey NI Mexico C.P. 64400		Quimobásicos operates one (1) Plascon Pla	nt at their facility in Monterrey Mexico. This plant was commissioned in April 2006, having previously been operating			
	E-mail: mapuente@cvdsa.com		to destroy Ozone depleting Substances (OD	(3) for Dascem Europe since Exprusive 2004 This Plascon now destroys B23 which is produced as a byproduct of			
	Telephone: +52 81 8305 4673		the manufacture of the refrigerant HCFC-22	to perstes under a Clean Development Mechanism (CDM) in accordance with the Kyoto Protocol.			
	Facsimile: +52 81 8305 4657		······································				
Remtec International	Richard Marcus - President						
	Remtec International		- Removal, Collection, Reclaimation and I	Destruction of redundant ODS materials from the United States of America and Globally			
	1100 Haskins Road, Bowling Green,		, , ,				
	Ohio, USA 43402		Remtec International operates one (1) PLAS	CON Plant at their plant in Ohio, USA. Commissioned in March 2006, the plant			
	E-mail: richard.marcus@remtec.net		operation is for the destruction of Halons and CFCs				
	Telephone: +1 419 867 8990						
	Facsimile: +1 419 867 3279						
Nufarm Limited	Volker Maier Group HS&E Manager						
	Nufarm Limited		- Manufacturer of agricultural chemicals in	cluding 2,4-D			
	PO Box 103, North Laverton						
	Victoria Australia 3028		The first commercial use of the PLASCON t	echnology involved the onsite destruction of a chlorophenol mixture at Nufarm Limited's 2,4-D herbicide manufacturing			
	Telephone: + 61 3 9282 1225		manufacturing plant. The plant was commissioned in March 1992 and was subsequently licenced by the Victorian EPA in October 1993.				
	Mobile +61 418 368 410		The successful destruction of the chlorinated waste streams has allowed Nufarm to improve efficiency of the whole production unit. Nufarm's on-site waste				
	Facsimile: +61 3 9282 1000		treatment was been further enhanced by the	installation of a second unit commissioned in May 1995.			
John Vijgen, International HCH and F	Pesticides Association and Dr.Ir. Ron McDowall, Auckland New Zealand f	or Secretariat of the Basel Convention	on, Date 01.09.2008				
Tables in the Annex have been supplied	d by BCD Technologies Pty Ltd			Annex Page 5 of 5			