

**Annex B to the:**

**- Registration Agreement for BD-R SL Disc Manufacturers**

**- Registration Agreement for BD-R SL Disc Manufacturers in Non-Patent Countries**

**- Registration Agreement for BD-R SL Disc Traders**

**Essential PH patents relevant to BD-R SL Disc**

<b>COUNTRY</b>	<b>REFERENCE</b>	<b>FILING NR</b>	<b>FILING DATE</b>	<b>PUBLICATION NR</b>	<b>GRANT DATE</b>	<b>GRANT NR</b>	<b>EXPIRY DATE</b>	<b>TITLE</b>
AR	N 015093	334224	14-11-1995		31-10-2001	AR000131	14-11-2015	HDCC: DISC DIMENSIONS ON DISC
AR	NL000685	P010105398	19-11-2001		26-06-2007	AR032774	19-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
AR	NL010273	P020101487	24-04-2002		20-02-2008	AR033470	24-04-2022	WOBBLE PERIOD FOR DVR
AR	NL010727	P020100956	18-03-2002		29-06-2007	AR033047	18-03-2022	ISOLATED BIT SYNC
AT	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	E192878	31-10-2015	HDCC: DISC DIMENSIONS ON DISC
AT	N 015471	95938001.5	06-12-1995	0745255-A1	23-10-2002	E226750	06-12-2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
AT	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	E184416	24-09-2016	CD-E SPEED ON DISC
AU	N 015093	95-36720	31-10-1995		25-02-1999	698869	31-10-2015	HDCC: DISC DIMENSIONS ON DISC
AU	N 017534	00-65620	05-07-2000	00-65620	06-01-2005	776531	05-07-2020	ONE ECC FOR DIFFERENT DATA
AU	NL000685	2002221849	12-11-2001		22-03-2007	2002221849	12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
AU	NL020067	02-353342	12-12-2002	2002353342	01-11-2007	2002353342	12-12-2022	USE OF SAME ECC DECODER FOR DIFFER
AZ	N 017534	200100345	05-07-2000		27-02-2003	003166	05-07-2020	ONE ECC FOR DIFFERENT DATA
AZ	NL010730	200400552	23-09-2002		28-04-2005	005695	23-09-2022	SPLIT WORD SYNC FOR DVR
BE	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	0740831	31-10-2015	HDCC: DISC DIMENSIONS ON DISC

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BE	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	0852796	24-09-2016	CD-E SPEED ON DISC
BG	N 015093	100723	31-10-1995		30-07-1999	62105	31-10-2015	HDCD: DISC DIMENSIONS ON DISC
BG	N 017534	105319	05-07-2000		18-08-2006	65000	05-07-2020	ONE ECC FOR DIFFERENT DATA
BG	NL000685	106913	12-11-2001		03-10-2007	65343	12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
BR	N 015093	PI9506626.8	31-10-1995	PI9506626.8	17-02-2004	PI9506626.8	31-10-2015	HDCD: DISC DIMENSIONS ON DISC
BY	N 017534	200100345	05-07-2000		27-02-2003	003166	05-07-2020	ONE ECC FOR DIFFERENT DATA
BY	NL010730	200400552	23-09-2002		28-04-2005	005695	23-09-2022	SPLIT WORD SYNC FOR DVR
CA	N 012063	548386	01-10-1987		07-09-1993	1322052	07-09-2010	"CD - WO: ATIP II"
CN	N 015093	95191258.5	31-10-1995	1138917-A	25-12-2002	95191258.5	31-10-2015	HDCD: DISC DIMENSIONS ON DISC
CN	N 015471	95192103.7	06-12-1995	1144011-A	24-12-2003	95192103.7	06-12-2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
CN	N 015495	96191532.3	24-09-1996	1182497-A	12-05-2004	96191532.3	24-09-2016	CD-E SPEED ON DISC
CN	N 017534	00801396.9	05-07-2000	1354880-A	04-04-2007	CN1308954	05-07-2020	ONE ECC FOR DIFFERENT DATA
CN	NL000685	01806158.3	12-11-2001	1416566-A	10-01-2007	01806158.3	12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
CN	NL000685 A	200510081860.3	12-11-2001	1794347-A			12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
CN	NL010191	02800696.8	14-03-2002	1459111-A	03-12-2008	02800696.8	14-03-2022	WOBBLE FOR DVR
CN	NL010273	02801340.9	18-04-2002	1462444-A	18-10-2006	02801340.9	18-04-2022	WOBBLE PERIOD FOR DVR
CN	NL010727	02800697.6	14-03-2002	1459109-A	20-09-2006	02800697.6	14-03-2022	ISOLATED BIT SYNC
CZ	N 015093	96-PV2044	31-10-1995		18-06-2001	288682	31-10-2015	HDCD: DISC DIMENSIONS ON DISC
CZ	N 015495	97-PV1610	24-09-1996		10-10-2002	291074	24-09-2016	CD-E SPEED ON DISC

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CZ	NL010727	02-PV3736	14-03-2002		21-02-2008	299-013	14-03-2022	ISOLATED BIT SYNC
DE	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	69516845.2	31-10-2015	HD CD: DISC DIMENSIONS ON DISC
DE	N 015471	95938001.5	06-12-1995	0745255-A1	23-10-2002	69528636.6	06-12-2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
DE	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	69604189.8	24-09-2016	CD-E SPEED ON DISC
DE	N 016849	98959114.4	28-12-1998		26-07-2006	69835345.5	28-12-2018	ERROR FROM WELL PROTECTED TO OTHE
DZ	NL010730	040125	23-09-2002		09-04-2006	3680	23-09-2022	SPLIT WORD SYNC FOR DVR
EA	N 017534	200100345	05-07-2000	200100345	27-02-2003	003166	05-07-2020	ONE ECC FOR DIFFERENT DATA
EA	NL000685	200300582	12-11-2001		23-06-2008	010523	12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
EA	NL010730	200400552	23-09-2002		28-04-2005	005695	23-09-2022	SPLIT WORD SYNC FOR DVR
EG	NL000685	2001-1212	17-11-2001		28-12-2003	23007	16-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
EG	NL010730	02-1119	14-10-2002		25-01-2005	23359	13-10-2022	SPLIT WORD SYNC FOR DVR
EP	N 012063	87201902.1	05-10-1987	0265984-A1	15-04-1992	0265984	05-10-2007	"CD - WO: ATIP II"
EP	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	0740831	31-10-2015	HD CD: DISC DIMENSIONS ON DISC
EP	N 015471	95938001.5	06-12-1995	0745255-A1	23-10-2002	0745255	06-12-2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
EP	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	0852796	24-09-2016	CD-E SPEED ON DISC
EP	N 016849	98959114.4	28-12-1998	0965175-A1	26-07-2006	0965175	28-12-2018	ERROR FROM WELL PROTECTED TO OTHE
EP	N 017534	00953016.3	05-07-2000	1114418-A1	07-01-2009	1114418	05-07-2020	ONE ECC FOR DIFFERENT DATA
EP	NL010273	02724558.8	18-04-2002	1386319-A	28-05-2008	1386319	18-04-2022	WOBBLE PERIOD FOR DVR
EP	NL010727	02718414.2	14-03-2002	1374238-A	20-08-2008	1374238	14-03-2022	ISOLATED BIT SYNC

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ES	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	0740831	31-10-2015	HDCD: DISC DIMENSIONS ON DISC
ES	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	0852796	24-09-2016	CD-E SPEED ON DISC
FR	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	0740831	31-10-2015	HDCD: DISC DIMENSIONS ON DISC
FR	N 015471	95938001.5	06-12-1995	0745255-A1	23-10-2002	0745255	06-12-2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
FR	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	0852796	24-09-2016	CD-E SPEED ON DISC
FR	N 016849	98959114.4	28-12-1998		26-07-2006	0965175	28-12-2018	ERROR FROM WELL PROTECTED TO OTHE
GB	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	0740831	31-10-2015	HDCD: DISC DIMENSIONS ON DISC
GB	N 015471	95938001.5	06-12-1995	0745255-A1	23-10-2002	0745255	06-12-2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
GB	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	0852796	24-09-2016	CD-E SPEED ON DISC
GB	N 016849	98959114.4	28-12-1998		26-07-2006	0965175	28-12-2018	ERROR FROM WELL PROTECTED TO OTHE
GR	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	0740831	31-10-2015	HDCD: DISC DIMENSIONS ON DISC
GR	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	0852796	24-09-2016	CD-E SPEED ON DISC
HK	N 015093	98114948.7	31-10-1995	1013722-A	24-11-2000	HK1013722	30-10-2015	HDCD: DISC DIMENSIONS ON DISC
HK	N 015495	98114109.2	24-09-1996	1012520-A	12-05-2000	HK1012520	23-09-2016	CD-E SPEED ON DISC
HK	N 017534	01109055.2	05-07-2000	1039675-A			05-07-2020	ONE ECC FOR DIFFERENT DATA
HK	NL010273	04104905.2	18-04-2002	1061916-A	16-01-2009	UNKNOWN	18-04-2022	WOBBLE PERIOD FOR DVR
HU	N 015093	P9601955	31-10-1995		12-06-2002	221214	31-10-2015	HDCD: DISC DIMENSIONS ON DISC
HU	N 017534	P0103944	05-07-2000		27-12-2005	224792	05-07-2020	ONE ECC FOR DIFFERENT DATA
HU	NL000685	P0204230	12-11-2001	0204230			12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE

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ID	N 015495	P-962786	30-09-1996	016343-A	10-03-2004	UNKNOWN	30-09-2010	CD-E SPEED ON DISC
ID	N 017534	W-0100587	05-07-2000	029.404 A	29-06-2007	ID0019506	05-07-2020	ONE ECC FOR DIFFERENT DATA
ID	NL000685	W00200201637	12-11-2001		23-05-2007	ID0019349	12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
ID	NL010727	W-0202624	14-03-2002	035621-A	24-08-2006	ID0017977	14-03-2022	ISOLATED BIT SYNC
IL	N 017534	141932	05-07-2000		06-10-2006	141932	05-07-2020	ONE ECC FOR DIFFERENT DATA
IN	NL010273	IN/PCT/02/02136	18-04-2002		19-11-2008	225575	18-04-2022	WOBBLE PERIOD FOR DVR
IN	NL010727	IN/PCT/02/01877	14-03-2002		04-09-2008	223107	14-03-2022	ISOLATED BIT SYNC
IR	NL010730	38107094	13-10-2002		15-07-2003	28736	13-10-2022	SPLIT WORD SYNC FOR DVR
IT	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	0740831	31-10-2015	HDCC: DISC DIMENSIONS ON DISC
IT	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	0852796	24-09-2016	CD-E SPEED ON DISC
JP	N 015495	97-514097	24-09-1996	99-513521	11-01-2008	4063321	24-09-2016	CD-E SPEED ON DISC
KR	N 012063	87-11135	06-10-1987		08-05-1996	99196	04-01-2011	"CD - WO: ATIP II"
KR	N 012399	89-563	20-01-1989		12-12-1997	132674	12-12-2012	ATIP III
KR	N 015093	96-703818	31-10-1995	97-0700906	01-12-2003	410711	31-10-2015	HDCC: DISC DIMENSIONS ON DISC
KR	N 015471	96-704517	06-12-1995	97-0701413	24-10-2003	404530	06-12-2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
KR	N 015495	97-703582	24-09-1996	10-1998-0700646	26-01-2005	0470007	24-09-2016	CD-E SPEED ON DISC
KR	N 016849	10-1999-7007933	28-12-1998	00-75855	04-07-2006	10-0599225	28-12-2018	ERROR FROM WELL PROTECTED TO OTHE
KR	N 017534	10-2001-7003156	05-07-2000	10-2001-0079792	22-03-2007	10-0701257	05-07-2020	ONE ECC FOR DIFFERENT DATA
MA	NL010730	27632	23-09-2002		01-07-2004	26226	23-09-2022	SPLIT WORD SYNC FOR DVR

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MX	N 015495	973953	24-09-1996		11-03-2003	213185	24-09-2016	CD-E SPEED ON DISC
MX	N 017534	002575	05-07-2000		07-01-2008	252991	05-07-2020	ONE ECC FOR DIFFERENT DATA
MX	NL000685	02-006982	12-11-2001		29-11-2007	251955	12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
MX	NL010273	02-012782	18-04-2002		29-05-2008	257480	18-04-2022	WOBBLE PERIOD FOR DVR
MX	NL010727	02-011273	14-03-2002		02-07-2007	246907	14-03-2022	ISOLATED BIT SYNC
MY	N 015495	PI9604010	27-09-1996		30-12-2005	120906	30-12-2020	CD-E SPEED ON DISC
MY	NL000685	PI20015234	15-11-2001		31-07-2007	MY-131219-A	31-07-2022	OPC-PROCEDURE USING A STRAIGHT LINE
MY	NL010191	PI20020934	14-03-2002		30-05-2008	MY-135544-A	30-05-2023	WOBBLE FOR DVR
MY	NL010727	PI20020933	14-03-2002		28-02-2007	128703	28-02-2022	ISOLATED BIT SYNC
NL	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	0740831	31-10-2015	HD CD: DISC DIMENSIONS ON DISC
NL	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	0852796	24-09-2016	CD-E SPEED ON DISC
PH	NL010727	1-2002-500046	14-03-2002		20-12-2007	1-2002-50004	20-12-2024	ISOLATED BIT SYNC
PK	NL010730	2002-884	12-10-2002		12-07-2004	138332	12-10-2022	SPLIT WORD SYNC FOR DVR
PL	N 015093	P315584	31-10-1995		29-06-2000	180182	31-10-2015	HD CD: DISC DIMENSIONS ON DISC
PT	N 015093	95934262.7	31-10-1995	0740831-A1	10-05-2000	0740831	31-10-2015	HD CD: DISC DIMENSIONS ON DISC
PT	N 015495	96929488.3	24-09-1996	0852796-A1	08-09-1999	0852796	24-09-2016	CD-E SPEED ON DISC
RO	N 015093	96-01469	31-10-1995		31-03-1998	113191	31-10-2015	HD CD: DISC DIMENSIONS ON DISC
RU	N 015093	96116857	31-10-1995	96116857	27-07-2002	2186427	31-10-2015	HD CD: DISC DIMENSIONS ON DISC
RU	N 017534	200100345	05-07-2000		27-02-2003	003166	05-07-2020	ONE ECC FOR DIFFERENT DATA

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RU	NL010273	2003133983	18-04-2002	2003133983-A	27-07-2006	2280907	18-04-2022	WOBBLE PERIOD FOR DVR
RU	NL010727	03130465	14-03-2002	2003130465-A	10-09-2006	2283516	14-03-2022	ISOLATED BIT SYNC
RU	NL010730	200400552	23-09-2002		28-04-2005	005695	23-09-2022	SPLIT WORD SYNC FOR DVR
SG	N 015093	9703040.7	31-10-1995		22-02-1999	42670	31-10-2015	HD CD: DISC DIMENSIONS ON DISC
SG	N 015495	9803014.1	24-09-1996		30-12-2004	53769	24-09-2016	CD-E SPEED ON DISC
SG	N 017534	200101416.6	05-07-2000		27-01-2006	79598	05-07-2020	ONE ECC FOR DIFFERENT DATA
SG	NL000685	200204342.0	12-11-2001		30-11-2005	90548	12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
SG	NL010273	200207828.5	18-04-2002		27-01-2006	94047	18-04-2022	WOBBLE PERIOD FOR DVR
SG	NL010727	200206813.8	14-03-2002		30-11-2005	92998	14-03-2022	ISOLATED BIT SYNC
SG	NL010730	200303448.5	23-09-2002		28-04-2006	97521	23-09-2022	SPLIT WORD SYNC FOR DVR
SK	N 015093	96-PP920	31-10-1995		12-08-2002	282592	31-10-2015	HD CD: DISC DIMENSIONS ON DISC
TH	NL010730	0201003781	11-10-2002				11-10-2022	SPLIT WORD SYNC FOR DVR
TR	N 015093	95-1446	17-11-1995		22-12-1997	TR199501446	17-11-2015	HD CD: DISC DIMENSIONS ON DISC
TR	N 017534	01-00710	05-07-2000		21-07-2005	TR-2001-0071	05-07-2020	ONE ECC FOR DIFFERENT DATA
TW	N 015093	84113944	27-12-1995		01-09-2005	I239004	27-12-2015	HD CD: DISC DIMENSIONS ON DISC
TW	N 015471	088216250	27-02-1996		14-07-2003	201070	27-02-2016	TOC'S FOR MULTILAYER OPTICAL DISCS II
TW	N 015495	85115279	10-12-1996		14-11-2000	117476	10-12-2016	CD-E SPEED ON DISC
TW	N 016849	88100894	21-01-1999		03-05-2001	124993	21-01-2019	ERROR FROM WELL PROTECTED TO OTHE
TW	NL000685	091106018	27-03-2002		21-02-2006	I-249736	27-03-2022	OPC-PROCEDURE USING A STRAIGHT LINE

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TW	NL010191	091104689	13-03-2002		21-03-2005	I229854	13-03-2022	WOBBLE FOR DVR
TW	NL010273	091112508	10-06-2002		11-01-2006	I247284	10-06-2022	WOBBLE PERIOD FOR DVR
TW	NL010727	091104690	13-03-2002		01-07-2005	I235363	13-03-2022	ISOLATED BIT SYNC
TW	NL010730	091122330	27-09-2002		11-10-2005	I241566	27-09-2022	SPLIT WORD SYNC FOR DVR
TW	NL020067	091132388	01-11-2002	200303526	21-06-2006	I257085	01-11-2022	USE OF SAME ECC DECODER FOR DIFFER
UA	N 015093	96072883	31-10-1995		15-10-2001	42015	31-10-2015	HDCC: DISC DIMENSIONS ON DISC
UA	NL000685	2003054405	12-11-2001		25-03-2008	82174	12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE
UA	NL010273	03109559	18-04-2002		15-05-2006	75642	18-04-2022	WOBBLE PERIOD FOR DVR
US	N 012063	X 08/099770	29-07-1993		16-08-1994	5339301	16-08-2011	"CD - WO: ATIP II"
US	N 012925	W 08/041141	31-03-1993		23-05-1995	5418764	23-05-2012	ADDITIONAL INFORMATION IN ATIP
US	N 012925	X 08/390451	17-02-1995		05-08-1997	5654947	05-08-2014	ADDITIONAL INFORMATION IN ATIP
US	N 015093	08/558517	16-11-1995		14-05-2002	6388962	16-11-2015	HDCC: DISC DIMENSIONS ON DISC
US	N 015093	C 10/134912	29-04-2002	2002-0118632-A1	25-02-2003	6526005	16-11-2015	HDCC: DISC DIMENSIONS ON DISC
US	N 015471	08/573850	18-12-1995		09-04-2002	6370102	18-12-2015	TOC'S FOR MULTILAYER OPTICAL DISCS II
US	N 015495	08/722651	30-09-1996		10-11-1998	5835462	30-09-2016	CD-E SPEED ON DISC
US	N 016849	09/218560	22-12-1998		23-04-2002	6378100	22-12-2018	ERROR FROM WELL PROTECTED TO OTHE
US	N 017534	09/786102	05-07-2000		13-02-2007	7178083	29-05-2024	ONE ECC FOR DIFFERENT DATA
US	NL000685	09/996000	16-11-2001	2002-0114235-A1	19-09-2006	7110336	15-05-2023	OPC-PROCEDURE USING A STRAIGHT LINE
US	NL010191	10/257691	14-03-2002		01-08-2006	7085209	07-05-2023	WOBBLE FOR DVR



<i>COUNTRY</i>	<i>REFERENCE</i>	<i>FILING NR</i>	<i>FILING DATE</i>	<i>PUBLICATION NR</i>	<i>GRANT DATE</i>	<i>GRANT NR</i>	<i>EXPIRY DATE</i>	<i>TITLE</i>
US	NL010273	10/131776	24-04-2002	2003-0007440-A1	26-09-2006	7113467	11-10-2023	WOBBLE PERIOD FOR DVR
US	NL010273 A	11/489171	24-04-2002	2006-0256705-A1	08-07-2008	7397757	08-07-2025	WOBBLE PERIOD FOR DVR
US	NL010727	10/276197	14-03-2002	2003-0174603-A1	16-05-2006	7046596	20-12-2023	ISOLATED BIT SYNC
US	NL010730	10/268445	10-10-2002	2003-0090825-A1	04-10-2005	6952381	12-06-2023	SPLIT WORD SYNC FOR DVR
US	NL020067	10/501824	12-12-2002	2005-0034047-A1	03-04-2007	7200795	26-03-2023	USE OF SAME ECC DECODER FOR DIFFER
VE	N 015093	95-2032	17-11-1995		04-10-2002	57442	17-11-2015	HDCD: DISC DIMENSIONS ON DISC
VN	N 015093	S19960035	15-07-1996		30-06-2000	1338	15-07-2011	HDCD: DISC DIMENSIONS ON DISC
VN	N 015495	S19970443	24-09-1996		16-01-2002	2540	24-09-2016	CD-E SPEED ON DISC
VN	N 017534	1-2001-00232	05-07-2000		18-01-2005	4747	05-07-2020	ONE ECC FOR DIFFERENT DATA
YU	NL010730	P-030474	23-09-2002				23-09-2022	SPLIT WORD SYNC FOR DVR
ZA	N 015093	959489	08-11-1995		30-07-1997	95-9489	08-11-2015	HDCD: DISC DIMENSIONS ON DISC
ZA	NL000685	02-5675	12-11-2001		28-01-2004	2002/5675	12-11-2021	OPC-PROCEDURE USING A STRAIGHT LINE