

ORGANIZACIÓN DE AVIACIÓN CIVIL INTERNACIONAL
Oficina Regional Sudamericana

QUINTA REUNIÓN/SEMINARIO DE DIRECTORES DE CENTROS
DE INSTRUCCIÓN DE AVIACIÓN CIVIL
(CIAC/5)

(Quito, Ecuador, 15 al 19 de octubre del 2001)

Asunto 4: Actividades del Programa TRAINAIR en el ámbito mundial y regional

LISTA DE CENTROS DE INSTRUCCIÓN DE AVIACIÓN CIVIL
ADSCRITO AL PROGRAMA TRAINAIR Y ESTADO DE LOS
CONJUNTOS DE MATERIAL DIDÁCTICO NORMALIZADO (CMDN)

Resumen

En esta nota se ofrece información relativa a los centros de instrucción de aviación civil internacional que son parte del programa TRAINAIR, a los conjuntos de material didáctico normalizado (CMDN) desarrollados y los que están en fase de desarrollo, así como una lista de centros de instrucción que podrían próximamente ser parte del programa TRAINAIR

1 Centros de Instrucción de aviación Civil miembros del programa TRAINAIR

1.1 En el transcurso del año 2001, cuatro nuevos Centros de Instrucción de Aviación Civil se adhieren al programa TRAINAIR. Estos son la Escuela Nacional de Aviación Civil de Francia (ENAC) (Agosto 2001), la Universidad de Aviación Civil de China (CAUC) (Marzo 2001), la Academia de Entrenamiento Aeronáutico (ATA) de Sudáfrica (Septiembre 2001) y el Centro de Instrucción de Aeronáutica Civil de Vietnam (CATCV) (Marzo 2001). Una lista completa de todos los Centros de Instrucción Aeronáutica que participan al programa TRAINAIR se muestra como **Apéndice A** a esta nota.

1.2 Como **Apéndice B** se muestra una lista de posibles centros de instrucción de aeronáutica civil que podrían anexarse al programa TRAINAIR.

2 Situación actual del programa TRAINAIR en las Regiones CAR/SAM

2.1 Con respecto a las regiones CAR/SAM, hasta la fecha participan en el programa TRAINAIR 10 centros pertenecientes a 8 Estados y un organismo de América Latina, contribuyendo a la red mundial con la preparación de 30 conjuntos de material didáctico normalizado, varios de los cuales ya se encuentran disponible para el intercambio. Asimismo, se tiene tres nuevos Estados como próximos potenciales nuevos miembros TRAINAIR en la Región SAM tales como Bolivia, Chile y Venezuela. Estos CIACs y los títulos de los CMDN que han preparado o están en proceso de preparación, con indicación de las fases en que se encuentran son:

Argentina	<p>Centro de Instrucción, Perfeccionamiento y Experimentación (CIPE) Operador ARO/AIS (8y9) Búsqueda y Salvamento (7) Microprocesadores –16 bits (7)</p>
Brasil	<p>Instituto de Protección al Vuelo (IPV) Actualización práctica para controladores radar APP(8&9) Fraseología en inglés para controladores radar APP (7) Control de afluencia de tránsito aéreo (4) Separación vertical mínima reducida (4)</p> <p>Instituto de Aviación Civil (IAC) Control del ruido en Aeropuertos (7) Análisis de la demanda de transporte en los aeropuertos (0)</p>
Colombia	<p>Centro de Estudio Aeronáutica (CEA) Licenciatura ATC y control de aeródromos (7) Mantenimiento de Radio Ayudas (6) Control de área y aproximación radar (1)</p>
Cuba	<p>Centro de Capacitación Aeronáutica (CCA) Gerencia de operaciones aeronáuticas (7) Gerencia comercial en la aviación (0) Técnico comercial en la aviación (0)</p>
Ecuador	<p>Escuela Técnica de Aviación Civil (ETAC) Inspección de aeronavegabilidad –Boeing 727 (4) Performance de Navegación Requerida (0)</p>
Panamá	<p>Escuela de Aeronáutica Civil (EAC) Especialista NOTAM (8y9) Manejo de mercancía peligrosa (8 y9) Especialista AIS de Aeródromos (7) Especialista en publicaciones aeronáuticas (4) Técnica de supervisión general (2) Especialista en cartas aeronáuticas (4) Gerenciamiento de mercancía peligrosas (4)</p>
Paraguay	<p>Instituto Nacional de Aeronáutica Civil (INAC) Grabador reproductor Wordsafe Máxima (7) Operador del servicio de información de vuelo de aeródromos (3)</p>
Perú	<p>Centro de Instrucción de Aeronáutica Civil Comercialización aeroportuaria (7) Planificación estratégica en el entorno CNS/ATM (2)</p>

COCESNA Escuela Centroamericana de Adiestramiento Aeronáutico (ECAA)
 Mantenimiento de equipos multiplex digital (7)
 Mantenimiento VOR modelo 5850 (0)
 Mantenimiento DME modelo 5960 (0)

3 Conjunto de Material Didáctico Normalizado

3.1 En el **Apéndice C** de esta nota se muestran la totalidad de los CMDN registrados hasta la fecha en la sede central de la unidad TRAINAIR en Montreal así como el estado de implementación de los mismos.

4 Acción sugerida

4.1 Se invita a la Reunión a:

- a) Tomar nota de la información presentada;
- b) Informar sobre el Estado de avance de los CMDN; y
- c) Informar sobre el avance de membresía al programa TRAINAIR.



APENDICE A

TRAINAIR MEMBERSHIP DETAILS

COUNTRY	CENTRE	TYPE OF MEMBERSHIP	COURSE DEVELOPMENT ACTIVITIES COMMENCED	REMARKS
ARGENTINA	Centro de Instrucción Perfeccionamiento y Experimentación (CIPE)	Full	February 1993	
AUSTRALIA	Airservices Australia ATS Training College	(Initial STP under preparation)	March 2000	
BRAZIL	Instituto de Proteção ao Vôo (IPV)	Full	February 1993	BRA/92/006
BRAZIL	Instituto de Aviação Civil (IAC)	Full	March 1994	BRA/92/006
CANADA	Nav Canada Training Institute (NCTI)	(Initial STP under preparation)	October 1994	
CANADA	Centre québécois de formation aéronautique (CQFA)		November 1997	
CHINA	Civil Aviation University of China (CAUC)	(Initial STP under preparation)	March 2001	CPR/00/801
COLOMBIA	Centro de Estudios Aeronáuticos (CEA)	(Initial STPs validated)	April 1994	COL/93/018
CUBA	Centro de Capacitación Aeronáutica (CCA)	(Initial STP under preparation)	January 1997	CUB/96/901
ECUADOR	Escuela Técnica de Aviación Civil (ETAC)	(Initial STP under preparation)	March 1997	ECU/89/002
EGYPT	National Civil Aviation Training Organization (NCATO)	Full	June 1990	
EL SALVADOR	Instituto Centroamericano de Capacitación Aeronautica (ICCAE)	(Initial STP under preparation)	January 1997	RLA/96/901
ETHIOPIA	Civil Aviation Training Centre (CATC)	Full	June 1990	

COUNTRY	CENTRE	TYPE OF MEMBERSHIP	COURSE DEVELOPMENT ACTIVITIES COMMENCED	REMARKS
ETHIOPIA	Multi-National Training Centre (MNTC)	Full	June 1990	
FRANCE	École Nationale de l'Aviation Civile (ÉNAC)	(Initial STP under preparation)	August 2001	
INDIA	Civil Aviation Training College (CATC)	Full	March 1993	
INDIA	National Institute of Aviation Management and Research (NIAMAR)	Full	October 1995	
INDONESIA	Civil Aviation Training Centre (CATC)	Full	April 1992	
IRAN, Islamic Republic of	Civil Aviation Technology College (CATC)	(Initial STP under preparation)	May 2000	TF/IRA/98/001
JORDAN	Queen Noor Civil Aviation Technical College (QNCATC)	Full	June 1990	
KENYA	East African School of Aviation (EASA)	Full	October 1990	
KOREA, Republic of	Civil Aviation Training Centre (CATC)	(Initial STP under preparation)	January 1999	TF/ROK/98/007
LATVIA	Latvijas Gaisa Satiksme (LGS)	Full	October 1997	TF/LAT/96/901
MOROCCO	Académie de l'aviation civile - Office National des Aéroports (ONDA)	(Initial STP validated)	December 1997	MOR/95/901
NETHERLANDS	Nederlands Luchtvaart College (NLC)	(Initial STP under preparation)	November 1997	
PAKISTAN	Civil Aviation Training Institute (CATI)	Full	June 1992	
PANAMA	Escuela de Aeronáutica Civil (EAC)	Full	July 1993	PAN/92/012
PARAGUAY	Instituto Nacional de Aeronáutica Civil (INAC)	(Initial STP under preparation)	January 1997	PAR/96/901
PERU	Centro de Instrucción de Aviación Civil. (CIAC)	(Initial STP under preparation)	April 1997	PER/96/901

COUNTRY	CENTRE	TYPE OF MEMBERSHIP	COURSE DEVELOPMENT ACTIVITIES COMMENCED	REMARKS
PHILIPPINES	Civil Aviation Training Centre (CATC)	(Initial STP under preparation)	September 2000	PHI/99/801
SAUDI ARABIA	Presidency of Civil Aviation Training Department	(Initial STP under preparation)	May 2000	
SINGAPORE	Singapore Aviation Academy (SAA)	(Initial STP under preparation)	September 2000	
SOUTH AFRICA	Aviation Training Academy (ATA)	(Initial STP under preparation)	September 2001	
SPAIN	Sociedad Estatal para las Enseñanzas Aeronáuticas (SENASA)	(Initial STP under preparation)	June 1999	
THAILAND	Civil Aviation Training Centre (CATC)	Full	December 1992	TF/THA/92/901
UNITED STATES	FAA Academy	(Initial STPs validated)	May 1998	
VIETNAM	Civil Aviation Training Centre of Vietnam (CATCV)	(Initial STP under preparation)	March 2001	VIE/00/801

APENDICE B

LISTA DE POTENCIALES NUEVOS MIEMBROS TRAINAIR

Bahrain
Barbados
Bolivia
Chile
India (CTE Hyderabad)
Indonesia (Ujung Pandang and Medan)
Jamaica
Malaysia
New Zealand
Nigeria
Niger (ASECNA)
Papua New Guinea
Romania
Sri Lanka
Tanzania
Trinidad and Tobago
Ukraine (KIUCA and SFA)
Venezuela
Zambia

APENDICE C

STANDARDIZED TRAINING PACKAGES REGISTER SUMMARY

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ICAO	STP	Indicator	Version	Lang	Specifics	Title	Duration	Centre	Status
214	001	CDW	1	E		TRAINAIR Course Developers Workshop	4	Central Unit ICAO	8&9
211	002	IDP	1	E		Instructor Development Programme	4	Central Unit ICAO	8&9
135	003	TMW	1	E		TRAINAIR Training Managers Workshop	2	Central Unit ICAO	8&9
123	004	BASIC	1	E-F-S-R-A		Basic AVSEC	2.5	AVSEC ICAO	8&9
75	005	NDT	1	E		Non-Destructive Testing - Level 1 Operator	4	NCATO Cairo	8&9
73	006	PROP	1	E		Propeller Maintenance	4	MNTC Addis Ababa	8&9
164	007	CVOR	1	E	Wilcox	CVOR Maintenance	2	QNCATC Amman	8&9
165	008	Radar	1	E	CSF	Radar Systems & Maintenance	12	EASA Nairobi	8&9
169	009	MWLMR	1	E		Microwave Link Systems: Maintenance & Repairs	6	NCATO Cairo	8&9
163	010	HFVHF	1	E	Aerocom/NEC	HF/VHF Communications Maintenance	6	CATC Addis Ababa	8&9
54	011	RCAP	2	E		Radar Control (Approach)	8	QNCATC Amman	8&9
164	012	DVOR	1	E	AWA	DVOR Maintenance	4	CATC Curug	8&9

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7 = VALIDATED 8-9 = STP APPROVED and AVAILABLE to Programme Members
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54	013	RCAR	1	E		Radar Control (Area)	8	QNCATC Amman	8&9
104	014	APL	1	E		Airport Lighting Maintenance	5	CATI Hyderabad	8&9
212	015	AIT	1	E		Advanced Instructor Training	5	EASA Nairobi	8&9
164	017	DME	1	E	CSF 721	DME Maintenance & Repair	6	NCATO Cairo	8&9
52	019	ATCL	1	E		ATC Licence & Aerodrome Control	17	CATC Bangkok	8&9
54	020	ATCRR	1	P		ATC Radar Refresher (Reciclagem Pratica para ATCO Radar APP)	2	IPV Sao Jose	8&9
176	021	ACS	1	E		Aeronautical Communications Supervisor	8	EASA Nairobi	8&9
105	022	CACM	1	E		Central Airconditioning System Maintenance & Repair	8	NCATO Cairo	8&9
164	023	DME	1	E	Wilcox 596B	DME Maintenance	4	QNCATC Amman	8&9
172	024	AMSSS	1	E	TUL	Automatic Message Switching System Supervisor	6	CATC Allahabad	8&9
21	030	AIS	1	S		Operador ARO/AIS	4	CIPE Buenos Aires	8&9
29	034	NOTAM	1	S		Especialista NOTAM	2	EAC Panama City	8&9
124	036	MEM	1	E		Management of Equipment Maintenance	4	CATC Curug	8&9
54	037	CRC	1	E		Combined Radar Control (Approach and Area)	8	QNCATC Amman	8&9
162	038	MICRO8	1	E		8-bit Microprocessor	4	QNCATC Amman	8&9
163	040	VHF	1	E	Park Air	VHF Communication System	3	CATC Allahabad	8&9

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						Maintenance			
75	041	NDT	1	E		Non-Destructive Testing - Level 2	4	NCATO Cairo	8&9
53	047	ATCNR	1	E		Non-Radar Control Approach	9	CATC Bangkok	8&9
279	049	AMC	1	E		Apron Movement Control	4	CATC Curug	8&9
54	052	RCAP	1	E		Radar Control (Approach)	8	CATC Allahabad	8&9
211	053	OJTGEN	1	E		OJT Training (General)	2	QNCATC Amman	8&9
164	055	DME	1	E	AWA	DME Maintenance	4	CATC Allahabad	8&9
106	064	MTCPAV	1	E		Airport Pavement Maintenance	3	NIAMR New Delhi	8&9
126	065	MTGDNG	1	S	AIR	Manejo de mercancías peligrosas	4	EAC Panama City	8&9
109	067	BRDCON	1	E		Bird Hazard Control Management	1	NIAMR New Delhi	8&9
164	068	ILS	1	E	Normarc	ILS Maintenance	3.5	CATC Allahabad	8&9
59	078	PLANCNSATM	1	E		CNS/ATM Technologies for ATC	2	ANS Riga	8&9
151	086	OPSISP	1	E		Government Safety	2.5	FAA Academy	8&9
						Inspector-Operations			
164	087	VOR	1	F	SEL 4000	Maintenance du VOR SEL 4000	4	ONDA, Casablanca	8&9
211	099	EXAM		E		Examination Techniques		CATC Tehran	8&9
211	109	IDP	1	S		Programa para la Formación de Instructores	4	Central Unit ICAO	8&9
214	110	CDW	2	E		TRAINAIR Course Developers Workshop	3	Central Unit ICAO	8&9
214	115	CDW	1	S		Taller de preparadores de cursos TRAINAIR	4	Central Unit ICAO	8&9

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214	116	CDW	1	F		Atelier des Concepteurs de cours TRAINAIR	4	Central Unit ICAO	8&9
214	121	CDW	2	S		Taller de Preparadores de Cursos	3	Central Unit ICAO	8&9
73	016	IGNIT		E		Aircraft Ignition Systems		MNTC Addis Ababa	7
169	032	ACRTP		E		Aircraft Com. Radio Telephoning & Procedures (Pilot Trg.)		MNTC Addis Ababa	7
73	033	PGTE		E		Aircraft Engines		MNTC Addis Ababa	7
131	035	AVMAN		E		Aviation Management		CATI Hyderabad	7
101	039	AGAENG		P		Airport Noise Control		IAC Rio de Janeiro	7
76	044	AMTELS		E		Aircraft Electrical Systems		MNTC Addis Ababa	7
57	050	SARP		S		Busqueda y Salvamento		CIPE Buenos Aires	7
21	051	AISAR		S		Especialista AIS de Aerodromo		EAC Panama City	7
162	058	MICR16		S		Microprocesadores (16 bits)		CIPE Buenos Aires	7
291	060	PHRASE		P		English Phraseology for Radar APP ATCO		IPV Sao Jose	7
52	062	ATC		S		Licencias ATC & Control de Aerodromo		CEA Bogota	7
163	072	MTMUXD		S	OKI	Mantenimiento de Equipos multiplex digital OKI de 1 y 2 orde		ECAA San Salvador	7
122	076	MGTAGA		S		Comercializacion Aeroportuaria		CIAC Lima	7
137	077	GEOPA		S		Gerencia de Operaciones Aeronauticos		CCA Habana	7

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169	081	COMMTC		S	Wordsafe	Grabador Reprodutor Wordsafe Maxima	INAC Luque	7
151	085	AIRISP		E		Government Safety Inspector-Airworthiness	FAA Academy	7
169	092	COM		E		CNS/ATM Technologies for Technicians	ANS Riga	7
162	098	MICR32		E		32-Bit Microprocessor	CATC Tehran	7
53	102	ATCAPP		E		Non-Radar Approach Control Services	PCA Saudi Arabia	7
104	114	APSS		E	TOSHIBA	Airfield Power Supply System	CATC Manila	7
21	117	AIS GEN		E		Basic AIS Officer	CAUC Tianjin	7
164	066	COMMTC		S	NAV	Mantenimiento de Radioayudas	CEA Bogota	6
55	018	ACNRP		E		Area Control Non-Radar Procedural	CATC Addis Ababa	5
51	057	AA		E		Aerodrome Assistants' Course	CATC Allahabad	5
133	070	RNPRNA		E		Introduction to RNP/RNAV Application Criteria	CATC Allahabad	5
121	075	APTM		E		Airport Passenger Terminal Management	NIAMR New Delhi	5
79	083	TEST		E		Test Equipment: Selection, application and calibration	CATI Hyderabad	5
159	090	SOA		E		ICAO Safety Oversight Auditor Course	ICAO	5
259	091	CRM		S		Crew Resource Management	SENASA Madrid	5

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59	097	ADSCPDL		E		ADS/CPDLC Applications	CATC Tehran	5
72	105	AMTPWR		E		Jet Engine Maintenance	CATC Tehran	5
169	042	STCOM		E		Satellite Communications	NCATO Cairo	4
111	045	RFFBAS		E		Basic Aerodrome Firefighter	CATC Curug	4
164	054	ILS		E		ILS Basic Principles	QNCATC Amman	4
124	074	CAC		E		Contracting for Airport Construction	NIAMR New Delhi	4
124	079	CPAE		E		Contracting for Procurement of Airport Equipment	NIAMR New Delhi	4
78	082	AIRINS		S	Boeing 727	Inspeccion de Aeronavegabilidad - Boeing 727	ETAC Quito	4
164	094	DGPS		E		DGPS Maintenance	CATC Seoul	4
22	095	CAR		S		Especialista en Cartas Aeronauticas	EAC Panama City	4
29	096	PUBLA		S		Especialista en Publicaciones Aeronauticas	EAC Panama City	4
59	101	ATS INCI		E		Air Safety Incident Investigation	ATS Australia	4
61	103	ATFM		P		Control de afluencia de transito aereo	IPV Sao Jose	4
59	104	RVSM		P		Separacion vertical minima reducida	IPV Sao Jose	4
139	111	CAAM		E		Computer Application in Airport Management	CATI Hyderabad	4
126	112	MGTDNGAIR		S		Gerenciamiento de Mercancias	EAC Panama City	4

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						Peligrosa		
164	046	DME		E	Pelorus	DME Maintenance	NCTI Cornwall	3
133	069	ATSSUP		E		ATS Watch Supervisory Course	CATC Allahabad	3
54	108	RCAP		E	PSR/SSR	Radar Control (Approach) (PSR & SSR)	CATC Allahabad	3
71	056	ASC		E		ASC Aircraft Structure	MNTC Addis Ababa	2
139	061	SUPGEN		S		Tecnicas de Supervision - General	EAC Panama City	2
169	071	LAN		E		Local Area Networks	QNCATC Amman	2
174	073	OPAFIS		S		Operador del servicio de informacion de vuelo de aerodromo	INAC Luque	2
122	080	CAS		E		Contracting for Airport Services	NIAMR New Delhi	2
169	089	COMDAT		E		Data Communications Networks	QNCATC Amman	2
163	100	VHF		E	Parkair Synt	VHF Communication System Maintenance	CATC Allahabad	2
124	106	AIRFIELDOPS		E		Basic Airfield Operations	QNCATC Amman	2
131	113	PLANCNSATM		S		Planificacion estrategica en el entorno de CNS/ATM	CIAC Lima	2
291	063	ATE		E		English Language - Aviation Technical English	CATC Bangkok	1
76	084	AMTAVC		E		Micro-soldering Techniques	MNTC Addis Ababa	1
52	088	ATC TWR		F		Controle d'aerodrome - Formation	ONDA, Casablanca	1

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						de base		
52	093	ATCTWR		S		Controle de Area y Aproximacion No Radar	CEA Bogota	1
164	107	VOR		E	SEL 4000	CVOR SEL 4000 Maintenance	PCA Saudi Arabia	1
57	119	SAR		E		Aeronautical Search and Rescue (SAR) Operation	SAA, Singapore	1
131	120	MGT GEN		E		Middle Manager	EASA Nairobi	1
219	tba-02	OJTATC		E		OJT Techniques for Air Traffic Controller	CATI Hyderabad	1
11	tba-19	AIG		E		Aircraft Accident Prevention	QNCATC Amman	1
123	025	SUPERV		E		AVSEC Supervisor	AVSEC ICAO	0
123	026	MAN		E		AVSEC Management	AVSEC ICAO	0
123	027	CRIMAN		E		AVSEC Crisis Management	AVSEC ICAO	0
123	028	CARGO		E		AVSEC Cargo	AVSEC ICAO	0
123	029	AIRSEC		E		AVSEC Airline Security	AVSEC ICAO	0
163	043	DCOM		E		Digital Communications	NCATO Cairo	0
123	048	AI		E		AVSEC Instructors	AVSEC ICAO	0
139	118	GERCOMA		S		Gerencia comercial en la aviacion	CCA Habana	0
29	tba-07	AISA		E		AIS Automation	NCATO Cairo	0
62	tba-08	ATECRS		P		Analysis on Airport Transportation Demand	IAC, Rio de Janeiro	0
69	tba-11			E		Logistics Personnel	NLC Hoofddorp	0
139	tba-15	TECOMA		S		Tecnico comercial en la aviacion	CCA Habana	0

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164	tba-16			S		Mantenimiento VOR Modelo 5850	ECAA San Salvador	0
164	tba-17			S		Mantenimiento DME Modelo 5960	ECAA San Salvador	0
133	tba-18			S		RNP	ETAC Quito	0
124	tba-20			E		Materials Procurement and Stock Control	CATC Manila	0
72	tba-21	AMT-PWR		E	B-737-300	B737-300 Engine Start	CAUC Tianjin	0
139	tba-22	MGT OTH		E		Application of e-commerce in Air Material	CAUC Tianjin	0
74	tba-23	AMT-IST		E	B-737-300	Weather Radar Maintenance	CAUC Tianjin	0
165	tba-24	COM MTC RDR		E		Primary Surveillance Radar Maintenance	CAUC Tianjin	0
126	tba-25	MGT DNG AIR		E		Handling of Dangerous Goods	CAUC Tianjin	0
291	tba-26	LAN ENG		E		English for Air Attendant	CAUC Tianjin	0

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***Status** 0 = STP Planned for future preparation 1-6 = STP in PROGRESS (number represents STP Phase currently under development)
 7 = VALIDATED 8-9 = STP APPROVED and AVAILABLE to Programme Members
 tba-# = STP number To Be Assigned

Language: A = Arabic C=Chinese E = English F = French P = Portugese R = Russian S = Spanish

Date: Most recent phase report received by the Central Unit