

IAGSA Member Self-Assessment Questionnaire

Company Name: SPC Geoken LLP	
Location: Kazakhstan, Almaty	
Date of Assessment: 24.11.2017	
Assessment Questionnaire completed by: Va	dim Chakabaev
Key Management Personnel	Position
Bissenbay Shagirov	Director General
Marat Shagirov	1 st Deputy Director General
Peter Kovrizhnykh	1 st Deputy Director General
Marlen Jukebayev	Chief Geophysicist
Total # Employees: 10	Involved in airborne geophysical surveys

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Planning – All Operations			
Title	IAGSA Recommendation	Compliance Level	Explanation of Compliance
Survey Planning	The following is a list of IAGSA I when planning airborne survey of Prior to commencing a survey, do you conduct a detailed risk assessment which identifies the safe survey height?		es which all members should take into account of type of survey or terrain. According to IAGSA Risk Assessment Procedure and Rio Tinto requirements.
Prior to conducting a survey do you establish a crew rotation schedule which considers factors such as remoteness of site, severity of climate, quality of accommodation, food and personal considerations?	AlwaysSometimesNever	According to IAGSA Recommended Practices and Rio Tinto requirements	
	Do you have a minimum temperature limit for cold weather operations?	 Always Sometimes Never N/A 	Minimum temperature limit for cold weather operations is 30 ^o C.



Do you limit the use of aircraft heaters or air-conditioning in the interest of "clean" data?	 Always Sometimes Never 	If heaters or air-conditioning intervene with survey systems
Do you require the use of oxygen for all aircrew for survey flights or portions thereof conducted above 10,000 feet ASL?	AlwaysSometimesNever	Always above 10,000 feet ASL. According to IAGSA Recommendations and Rio Tinto requirements
Do you have a drug and alcohol policy?	⊠ Yes □ No	Policy of SPC Geoken LLP on narcotics, alcohol, smoking, psychotropic agents and toxic substances use
Are aircrew members required to wear long trousers or a flight suit, closed shoes, have gloves available and clothing appropriate for the environmental conditions?	AlwaysSometimesNever	All required cloth and PPE in accordance with climate conditions. According to IAGSA Recommendations and Rio Tinto requirements
For fixed wing surveys, is a risk assessment conducted to determine whether or not helmets should be worn by the flight crew members?	Always	Risk Assessment conducted. According to IAGSA Recommendations and Rio Tinto requirements



Image: Section of the section of th				
Flight Following Do you operate a satellite Do you operate a satellite Yes Flight Following Do you operate a satellite Yes Overall Emergency Response Plann Flight Following Do you operate a satellite Yes Overall Emergency Response Plann Flight Following Do you operate a satellite Yes Overall Emergency Response Plann Flight Following Do you operate a satellite Yes Overall Emergency Response Plan			Never	
flight crew members required to wear a flight helmet? Always According to IAGSA Recommendations and Rio Tinto requirements. Are flight crew members paid or given an incentive based upon hours or kilometers flown? Always According to IAGSA Recommendations and Rio Tinto requirements. Emergency Response Planning Do you develop project specific emergency response plans for each project? Always According to IAGSA Recommendations and Rio Tinto requirements. Do sou develop project specific emergency response plans for each project? Always According to IAGSA Recommendations and Rio Tinto requirements. Does your company have an overall crisis management plan? Ves Overall Emergency Response Plan Flight Following Do you operate a satellite Yes TracPlus. According to IAGSA Recommendations			□ N/A	
to wear a flight helmet? Sometimes Tinto requirements. Never Are flight crew members paid or given an incentive based upon hours or kilometers flown? Always According to IAGSA Recommendations and Rio Tinto requirements. Emergency Response Planning Do you develop project specific emergency response plans for each project? Always According to IAGSA Recommendations and Rio Tinto requirements. Does your company have an overall crisis management plan? Never According to IAGSA Recommendations and Rio Tinto requirements. Flight Following Do you operate a satellite Yes No Overall Emergency Response Plan			Always	
Are flight crew members paid or given an incentive based upon hours or kilometers flown? Always According to IAGSA Recommendations and Rio Tinto requirements. Sometimes Sometimes Never According to IAGSA Recommendations and Rio Tinto requirements. Emergency Do you develop project specific emergency response plans for each project? Always According to IAGSA Recommendations and Rio Tinto requirements. Does your company have an overall crisis management plan? Never Overall Emergency Response Plan Flight Following Do you operate a satellite Yes TracPlus. According to IAGSA Recommendations		to wear a flight helmet?	Sometimes	
or given an incentive based upon hours or kilometers flown? Image: Always Sometimes Never Tinto requirements. Emergency Response Planning Do you develop project specific emergency response plans for each project? Image: Always Never Always Always Image: Always Sometimes According to IAGSA Recommendations and Rio Tinto requirements. Does your company have an overall crisis management plan? Image: Always Image: A			Never	
flown? Sometimes Image: Sometimes Never Image: Sometimes Never Emergency Do you develop project specific emergency response Always plans for each project? Sometimes Image: Never Never Does your company have an overall crisis management plan? Yes Image: No No Flight Following Do you operate a satellite TracPlus. According to IAGSA Recommendations		or given an incentive based	Always	
Emergency Response Planning Do you develop project specific emergency response plans for each project? Always According to IAGSA Recommendations and Rio Tinto requirements. Does your company have an overall crisis management plan? Never Overall Emergency Response Plan Flight Following Do you operate a satellite Image: Always TracPlus. According to IAGSA Recommendations and Rio			Sometimes	
Response Planning specific emergency response plans for each project? Always Tinto requirements. Image: Sometimes Image: Sometimes Image: Sometimes Image: Sometimes Image: Sometimes Image: Does your company have an overall crisis management plan? Image: Sometimes Image: Sometimes Image: Sometimes Image: Flight Following Do you operate a satellite Image: Sometimes Image: Sometimes Image: Sometimes Image: Flight Following Do you operate a satellite Image: Sometimes Image: Sometimes Image: Sometimes			Never	
Image: Sometimes Image: Sometimes Image: Image: Sometimes Image: Sometimes Image: I		specific emergency response	🖂 Always	
Does your company have an overall crisis management plan? ✓ Yes Overall Emergency Response Plan Flight Following Do you operate a satellite ✓ At TracPlus. According to IAGSA Recommendations		plans for each project?	Sometimes	
overall crisis management plan? Image: Yes Image: Plan? Image: No Flight Following Do you operate a satellite Image: Plan? Image: No Flight Following Do you operate a satellite			Never	
plan? No Flight Following Do you operate a satellite TracPlus. According to IAGSA Recommendations			🖂 Yes	Overall Emergency Response Plan
			🗌 No	
	Flight Following		Always	



		Sometimes Never	
	Is the position reporting frequency of the tracking system set to 2 minute intervals as a minimum?	⊠ Yes □ No	
Single Pilot Only Surveys	Do you conduct single Pilot Only Surveys (no equipment operator)?	AlwaysSometimesNever	Two pilots and one operator only.
	If so, does the Pilot have equipment operation duties in addition to those normally associated with flying the aircraft?	 Always Sometimes Never N/A 	Not applicable
	Are additional risks associated with single pilot only operations detailed in the risk assessment?	AlwaysSometimesNever	Not applicable



		\square	N/A	
	Ope	erati	ing Standards	
Minimum safe survey speeds	Are minimum safe survey speeds for single engine aircraft calculated at 130% of clean stall speed (Vs)?		Always Sometimes Never	Minimum safe survey speeds for single engine aircraft calculated at 130% of clean stall speed (Vs). According to IAGSA Recommendations and Rio Tinto requirements.
	Are minimum safe survey speeds for Multi-engine aircraft: 110% of best single engine rate of climb speed (Vyse), or minimum safe single engine speed (Vsse, if published)?		Always Sometimes Never N/A	Multi-engine aircrafts are not used
Minimum Fuel Standard	Is fuel planning for survey flights based upon 110% of planned consumption?		Always Sometimes Never	According to IAGSA Recommendations and Rio Tinto requirements.
	Is minimum reserve fuel calculated as 30 minutes for fixed wing and 20 minutes for helicopter at normal cruise consumption rates?		Always Sometimes Never	According to IAGSA Recommendations and Rio Tinto requirements.



	Do planned minimum fuel reserves consider site specific contingencies?	\boxtimes	Always	According to IAGSA Recommendations and Rio Tinto requirements.
	contingencies?		Sometimes	
			Never	
Flight and Duty Times	Are the following Flight & Duty Times adhered to?			
Single Pilot Operation Maximum Flight Times	A maximum of 8 hours flight time per day.		Always	No single pilot flights.
			Sometimes	
		\boxtimes	Never	
	A maximum of 5 hours flight time on survey per day		Always	No single pilot flights.
	(excluding transit time)		Sometimes	
		\boxtimes	Never	
	A maximum of 40 hours flight time in any 7 consecutive day		Always	No single pilot flights.
period	period		Sometimes	
		\boxtimes	Never	
	A maximum of 100 hours flight time in any consecutive 28 day period.		Always	No single pilot flights.



		Sometimes	
		Never	
	A maximum of 1000 hours in any consecutive 365 day	Always	No single pilot flights.
	period.	Sometimes	
		Never	
	If extensions to the single pilot flight times are used has the	Always	No single pilot flights.
extension criteria recommended by IAGSA been	extension criteria recommended by IAGSA been	Sometimes	
	met?	Never	
		N/A	
Dual Pilot Operations	A maximum of 10 hours flight	🛛 Always	According to IAGSA Recommendations and Rio
Maximum Flight limes	Maximum Flight times time per day.	Sometimes	Tinto requirements.
		Never	
	A maximum of 8 hours flight time on survey (excluding	🛛 Always	According to IAGSA Recommendations and Rio Tinto requirements.
	transit time).	Sometimes	
		Never	



	A maximum of 45 hours flight time in any consecutive 7 day	🖂 Always	According to IAGSA Recommendations and Rio Tinto requirements.
	period.	Sometimes	Tinto requirements.
		Never	
	A maximum of 120 hours flight	🛛 Always	According to IAGSA Recommendations and Rio Tinto requirements.
	time in any consecutive 28 day period.	Sometimes	
		Never	
	A maximum of 1200 hours flight time in any consecutive	🛛 Always	According to IAGSA Recommendations and Rio Tinto requirements.
	365 day period.	Sometimes	
		Never	
Maximum Duty Times	The maximum duty time in any one day shall not exceed 14	🖂 Always	According to IAGSA Recommendations and Rio Tinto requirements.
	hours	Sometimes	
		Never	
	The pilot shall have a minimum of 2 days rest within	🛛 Always	According to IAGSA Recommendations and Rio Tinto requirements.
	a 14 day period. These may be taken separately or	Sometimes	
	together. If taken separately, one day rest shall be defined as 30 consecutive hours free	Never	
	from duty.		



Emergency Beacon / Radio	Is each aircrew member required to carry on their person essential survival items including: a personal locator beacon means to start a fire, knife and a signal mirror?	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.
Fuel Quality Control – Storage Tanks	adequacy of this quality control	and take all available r	naller centres. The crew must determine the neans to ensure against boarding contaminated fuel. ng checks are required anytime a fuel source is
Check that Fuel Quality Control Check and Delivery documents are current and available. Check that the fuel servicing vehicle / facility is identified with the fuel type handled.	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.	
	vehicle / facility is identified	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.
	Check that the facility is clean and maintained.	 Always Sometimes Never 	According to IAGSA Recommendations and Rio Tinto requirements.

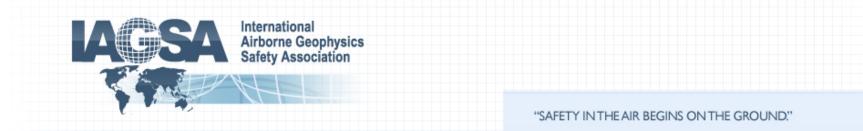


Check that bonding wires and connections are in good condition.	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.
Check that filter systems are in place and date of last element replacement.	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.
Check that a sample is clear and bright downstream of the filter.	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.
Request or conduct a water test with paste or syringe and capsules.	AlwaysSometimesNever	Water test with paste. According to IAGSA Recommendations and Rio Tinto requirements.
Check that a sample from the low point of the tank is clear bright and free of water. If there is no low point water	Always	According to IAGSA Recommendations and Rio Tinto requirements.



	drain, do a dip of the tank using water paste.	Never Never	
Fuel Quality Control - Drums	When using drummed fuel are the set of the s	here procedures in place	ce to ensure the following requirements?
	Verify the expiry date of the drums.	Always	According to IAGSA Recommendations and Rio Tinto requirements.
		Sometimes	
		Never	
	A "go no-go" filter be used for all refueling from drums.	Always	According to IAGSA Recommendations and Rio Tinto requirements.
		Sometimes	
		Never	
	All drum fuel is visually checked for clarity and color and water tested with paste or fuel syringe and capsules	Always	Water tested with paste. According to IAGSA Recommendations and Rio Tinto requirements.
		Sometimes	
	before use.	Never	
	Only clearly branded drums with both seals intact are be	Always	According to IAGSA Recommendations and Rio Tinto requirements.
	used unless the pilot knows the "history" of the drum since	Sometimes	
	the seals were broken and retests the fuel for	Never	
	contamination before use.		

SA International Airborne Geophysics Safety Association		"SAFETY IN THE AIR BEGINS ON THE GROUND."
Aircraft sump drains be checked before the first flight of the day and after each refueling.	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.
Drums are stored on their sides, clear of the ground with bungs horizontal in an area not subject to flooding. Under- cover storage should be considered if drum stock are to be kept for a long time.	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.
When not in use, fuel pumps are protected from water and other contamination.	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.
Bungs should be sealed and the drum placed on its side for short term storage (i.e. overnight) of a partially filled drum.	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.



Night Surveys	Typically, survey flights are conducted at low heights in day VMC, but if the low height is removed coupled with a smooth air requirement, such as for gravity surveys, it may be desirable to conduct night flights. Such flights can be conducted safely as long as there are adequate procedures to prevent a "controlled flight into terrain" CFIT accident.Are procedures in place to ensure the following requirements:				
	Are night surveys flown at least 1000 feet above all obstacles within the operational area and a 10 nautical mile buffer around the operational area? Does the operational area include the maneuvering area for line turns and lead-ins?	 Always Sometimes Never N/A 	No night surveys		
	Is a VMC reconnaissance flight performed in each block?	 Always Sometimes Never N/A 	No night surveys		
Monitoring of radios	During survey flights, are radios and transponders turned on and selected to the appropriate ATC or flight service frequencies.	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.		



	Additionally, equipment permitting, common air to air and emergency frequencies (121.5MHz) should also be monitored.				
Turning Radius			nt margin above the stall speed, however in a steep varning and a stall in the turn at low level will likely		
	Are all turns at low level limited to a maximum angle of bank of 30 degrees and be done at a constant altitude. Are climbs or descents allowed to be carried out during the turn?	AlwaysSometimesNever	According to IAGSA Recommendations and Rio Tinto requirements.		
	Towed Geophysical Arrays				
Towed Geophysical Arrays – All aircraft types	This section applies to all airborn rotary or fixed wing aircraft.	ne surveys utilizing geo	ophysical arrays suspended below and/or towed by		
	Do you operate towed geophysical arrays?	☐ Yes⊠ No	Tail and wing stingers only		
	Does the towed array have an STC/LSTC, engineering order or other similar certificate or statement describing array	Yes No	Not applicable		



	specifications and flight test data?	N/A	
	Is there an Operating Manual for each array?	Yes	Not applicable
		🗌 No	
		N/A	
	Does the Operating manual identify the maximum safe	Yes	Not applicable
	operating airspeed for the array?	🗌 No	
		N/A	
	Does the Operating Manual contain a parts list and	Yes	Not applicable
	maintenance manual containing the critical design specification for all parts and	🗌 No	
	elements of the array?	N/A	
	Does the Operations Manual contain a pre-flight checklist?	Yes	Not applicable
		🗌 No	
		N/A	



	Does the Operations Manual contain a schedule for routine preventative maintenance, recorded inspections and testing?	☐ Yes☐ No☑ N/A	Not applicable
to ensure that all required maintenance, inspections testing are up to date prior job start? Is all maintenance perform	maintenance, inspections and testing are up to date prior to	Yes No	Not applicable
	-	N/A Yes No	Not applicable
Towed Geophysical Arrays – Rotary Wing Aircraft	Has the cable weight and length been determined by an aeronautical engineer as to minimize the potential for cable recoil into main and tail rotors following the loss of load?	 N/A Yes No N/A 	Not applicable
	Is there a weak link incorporated into the load bearing cable?	☐ Yes☐ No☑ N/A	Not applicable



Is the weak link located as close as possible to the attachment hook of the helicopter?	☐ Yes☐ No☑ N/A	Not applicable
Has the breaking strain of the weak link been specified by an aeronautical engineer?	☐ Yes☐ No☑ N/A	Not applicable
Is the maximum towed array airspeed and VNE (Velocity Never Exceed) placard placed on the aircraft instrument panel in the Pilot's view?	☐ Yes☐ No☑ N/A	Not applicable
Does the cargo hook arrangement allow the pilot to jettison the load without removing his/her hands from the flight controls? Do procedures include the requirement to test the helicopter cargo hook release mechanism?	☐ Yes☐ No☑ N/A	Not applicable

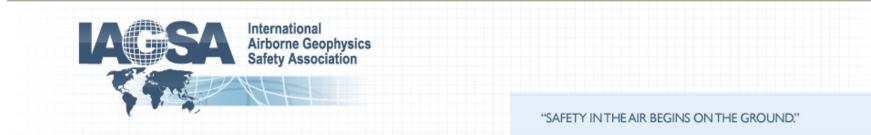


Towed Geophysical Arrays – Fixed Wing	Is the aircraft fitted with a shearing mechanism which can cut the tow cable when the array needs to be jettisoned?	☐ Yes☐ No☑ N/A	Not applicable
	Does the tow cable have a breaking strain which minimizes damage to the aircraft in the event the array snagged with ground objects?	☐ Yes☐ No☑ N/A	Not applicable
	Geophysic	al Survey Flight T	raining
Training and Experience – All Operations	Does your training program contain a syllabus for low level geophysical flight training?	⊠ Yes □ No	
	Does the Pilot training syllabus reflect the IAGSA training guidelines?	⊠ Yes □ No	
	Are there documented criteria to assess Pilot competency?	⊠ Yes □ No	
Simulator Training	In addition to the training in the actual aircraft, do pilots, where practical, undergo simulator	🖂 Always	Frequency: once a year.

	SA International Airborne Geophysics Safety Association		Sometimes	"SAFETY IN THE AIR BEGINS ON THE GROUND."
	simulator representing the aircraft being flown on survey? If so, at what frequency?		Never N/A	
	Overwate	r an	d Offshore Su	irveys
Minimum requirements for Over water and Off Shore Surveys				and off shore surveys flown in both fixed wing and
Training – Overwater & Offshore Surveys	Is Underwater Escape Training completed within the preceding three years before undertaking the over water or offshore survey.		Always Sometimes Never	No overwater and offshore surveys
	Are Ditching & Emergency Evacuation Procedures reviewed, crew members thoroughly briefed and simulated training to be conducted at the work site prior to the start of all over water or offshore work. This review should include a review of general emergency procedures that could potentially lead to a ditching and a discussion on the		Always Sometimes Never	No overwater and offshore surveys



	significance of sea state/wave height on ditching.				
Training - Off Shore Surveys	In addition to the above items, the following are to be included in offshore training:				
	Does Initial Training consist of a minimum of 10 hours training	Yes	No overwater and offshore surveys		
	conducted by a pilot who has a minimum of 100 hours Offshore experience?	□ No			
	Does Recurrent Training consist of a minimum of 5 hours training conducted annually by a pilot with the same qualifications as for the initial training: or prior to the start of an Offshore survey if pilot has completed the initial training but has not flown Offshore for more than 90 days?	☐ Yes ☐ No	No overwater and offshore surveys		
	Alternatively, the above experience requirements may be waived if the Operator has in place a competency based training program which includes Offshore operations.		No overwater and offshore surveys		



Type of Aircraft – Over water / Offshore Operations	For an over water/offshore survey in an area with harsh conditions where the odds of surviving a ditcl or the exposure that would follow are low then the emphasis must be placed on choosing an aircraft t reduces the probability of a ditching. Whereas, the aircraft criteria may be somewhat less stringent in harsh conditions where the odds of a successful ditching and rescue are good.				
	For any survey that is over water or offshore in an area where rescue is not likely to occur within an anticipated acceptable exposure time and/or where anticipated sea states would make a successful ditching unlikely, is the use of a multi engine aircraft with performance characteristics such that in the event of an engine failure during an over water survey it can climb from survey height to 500 feet and return to shore or during an offshore survey it can climb from survey height	 Always Sometimes Never 	No overwater and offshore surveys		
	and maintain prolonged flight on the remaining engine(s) to return to a suitable airport at the minimum IFR altitude utilized? Are single engine piston aircraft used for over water/offshore surveys?	Always	No overwater and offshore surveys		



		SometimesNever	
Aircraft equipment – Offshore	Are aircraft equipped with at least the following gyroscopic instruments, each of which must be independent of the others: 2 x attitude indicator; 2 x heading indicator; 2 x turn and slip indicator or turn coordinator?	☐ Yes ☐ No	No overwater and offshore surveys
	If a second pilot is to be part of the crew, is there a complete second set of basic flight instruments (attitude indicator, gyroscopic heading indicator, turn and slip or turn coordinator airspeed, altimeter, vertical speed) installed at the co-pilot's seating position?	☐ Yes ☐ No	No overwater and offshore surveys
	Are there at least two (2) independent power sources to drive the gyroscopic instruments? - this may mean two vacuum pumps with all	□ Yes □ No	No overwater and offshore surveys



air driven gyroscopes or a mixture of air driven and electric gyroscopes provided loss of one power source leaves operational one set of three gyroscopic instruments (attitude, heading and turn rate indicators)		
Is there a radio or radar altimeter with a means of alerting the crew when height above the water falls below a minimum safety height selected by the crew? Is there a means of testing the alerting device prior to flight?	YesNo	No overwater and offshore surveys
Is there a minimum of one instantaneous vertical speed indicator (IVSI) to provide an instant alert of descent	Yes No	No overwater and offshore surveys
Do you require the use of weather radar where thunderstorms are present or could be expected?	AlwaysSometimesNever	No overwater and offshore surveys



	Are Rotary wing aircraft equipped with floatation aids such as "pop-outs floats"?	AlwaysSometimesNever	No overwater and offshore surveys
Emergency Equipment – Offshore Surveys	An upper torso restraint system, with a preference for a four point harness, for each crew member	Yes No	No overwater and offshore surveys
	Are aircraft equipped with a 406 MHZ ELT?	Yes No	No overwater and offshore surveys
	Is the crew provided a covered life raft with a self erecting canopy that is equipped with a 406 MHZ ELT and normal emergency survival equipment? Does raft should include an inflatable floor for cold water operations?	☐ Yes☐ No	No overwater and offshore surveys
	Are constant wear dual chamber life vests that contain an ELT aELT/EPIRB, flares	Yes No	No overwater and offshore surveys



	and a signal mirror, worn by each crew member?			
	Are immersion/exposure suits worn if water and air temperatures warrant?	Yes No	No overwater and offshore surveys	
	Are all helmets and headsets fitted with double disconnect cords?	Yes No	No overwater and offshore surveys	
Weather – Offshore Surveys	Are Offshore survey flights conducted under VMC with minimums of 5 miles visibility and 1000 foot ceiling in the survey area?	Yes No	No overwater and offshore surveys	
	Is a thorough weather briefing solicited (if available) and does it should include sea state/wave height and wind maximums in the survey area?	Yes No	No overwater and offshore surveys	
Additional Training Requirements				
Fire Extinguisher Training	Do all crew members on survey flights, including equipment operators, receive annual training in the use of	Yes		



	fire extinguishers in fighting in flight fires?				
Survey Crew Resource Management Training	Is Survey Crew Resource Management training provided to all crew members assigned to survey operations including: geophysicists; pilots; equipment operators; maintenance engineers; field technicians and field support staff at intervals not exceeding three years?	⊠ Yes □ No	Once every three years		
Flight Performance Monitoring					
Performance Monitoring	Is performance parameters, including aircraft speed, height above terrain and drape, periodically reviewed using data collected during surveys?	Always	According to IAGSA Recommendations and Rio Tinto requirements.		
		Sometimes			
		Never			
	Is the frequency of review such that any discrepancies on a particular survey or by a particular pilot can be identified as early as possible?	Always	According to IAGSA Recommendations and Rio Tinto requirements.		
		Sometimes			
		Never			