

	Item	Class A	DK BUDP	N TROM	S ONSA
<b>1</b>	<b>Monument Environment:</b>				
1.1	- securing environment by legal means (with written long term contracts)	X	X	X	X
1.2	- station coordinates monitoring				
1.2.1	- daily solution	X	X	X	X
1.2.2	- at least four (?) times a year	X	X	X	X
1.3	- if relocated: four (?) months overlapping relocation period	(X)			
1.4	- monitoring radio disturbances	(X)	-	-	X
1.5	- multipath monitoring				
1.5.1	- analysis of GPS data.	X	X	X	X
1.5.2	- monitoring of antenna surroundings, min every 2 year.	X	X	X	X
1.6	- monitoring ground water level				
1.6.1	- direct well measurements (within 100 meters)	(X)	-	X	-
1.6.2	- monitoring local drainage and regional water supply production.	(X)	-	-	(X)
1.7	- a platform for absolute gravity measurements should be established in connection to the monument.	(X)	(X)	X	X
<b>2</b>	<b>Monument:</b>				
2.1	- extreme stability in space/time	X	X	X	X
2.2	- stability documented in time series, minimum 12 (?) months.	1-2 mm	X	X	X
2.3	- monument construction shall be documented	X	X	X	X
2.4	- terrestrial measurements between benchmarks and pillar at least every third year	X	X	?	X
2.5	- documented geological preconditions	(X)	X	?	X
2.6	- thermal expansion controlled by heating or construction	(X)	X	-	-

	documented for this effect.				
<b>3</b>	<b>Antennas:</b>				
3.1	- Dorne Margolin/IGS compatible	X	X	X	X
3.2	- the antenna should be acknowledged by IGS and have calibration values from IGS/NGS.	X	X	X	X
3.3	- if an antenna splitter is used it must be documented.	X	X	X	X
3.4	- spare antenna available within one week	X	X	X	X
<b>4</b>	<b>Radomes:</b>				
4.1	- if a radome is used it must be documented and IGS compatible	X	X	X	X
<b>5</b>	<b>Receiver:</b>				
5.1	- dual frequency, minimum 12 channel geodetic receiver, mentioned in IGS receiver-antenna table	X	X	X	X
5.2	- redundant receiver	(X)	-	X	X
5.3	- spare receiver of same brand/type available within one week	X	X	X	X
5.4	- local storage of raw data either in a local PC or internal memory.	X	X	X	X
5.5	- real-time data on redundant communications routers	(X)	-	-	X
5.6	- the receiver must have at least 3 serial ports, USB or an Ethernet port.	X	X	X	X
5.7	- external oscillator	(X)	X	X	X
<b>6</b>	<b>Data rate / data storing</b>				
6.1	- every 1 second	X	X	X	X

6.2	- other, at least every 30 <sup>th</sup> second	(X)	X	X	X
6.3	- data available at least one (?) year	X	X	X	X
<b>7</b>	<b>Station security and environment</b>				
7.1	- limited access to the station	X	X	X	X
7.2	- the station is manned.	(X)	-	-	X
7.3	- the station is equipped with firealarm/alarm/webcamera	(X)	-	X	?
7.4	- UPS or alternatives	X	X	X	X
7.5	- lightning protection of electronics	(X)	-	X	X
7.6	- lightning protection of antenna	(X)	X	X	-
7.7	- lightning protection of building	(X)	-	X	-
7.8	- redundant communications.	(X)	-	-	X
7.9	- stable temperature for the GNSS receiver	X	X	X	X
7.10	- indoor climate logging	(X)	X	X	X
7.11	- meteorological measurement equipment according to IGS	(X)	-	-	X
<b>8</b>	<b>Documentation if available:</b>				
8.1	- station must have an IGS-logfile.	X	X	X	X
8.2	- antenna cable, length, type	X	X	X	X
8.3	- signal splitter	(X)	X	X	X
8.4	- lightning protection	(X)	X	X	X
8.5	- external frequency	(X)	X	X	X
8.6	- meteorological equipment	(X)	-	-	X
8.7	- UPS	(X)	X	X	X

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