



RESULTS

*of Conflict checking of TOP/BOTTOM
LEVEL ACCESS PLATFORMS
(SECTOR 13)*

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CATIA has been identified lot of conflicts of models:
AT392122MQ – *TOP LEVEL ACCESS PLATFORMS (SECTOR 13)* and
AT392123MQ – *BOTTOM LEVEL ACCESS PLATFORMS (SECTOR 13)* with
Toroid Magnets, Muon Spectrometer, Services and Support
Structure.

List of conflicts have been checked with responsible designer
of access platforms madam Nikitina Liudmila

Control method includes Clash and Clearance analysis.

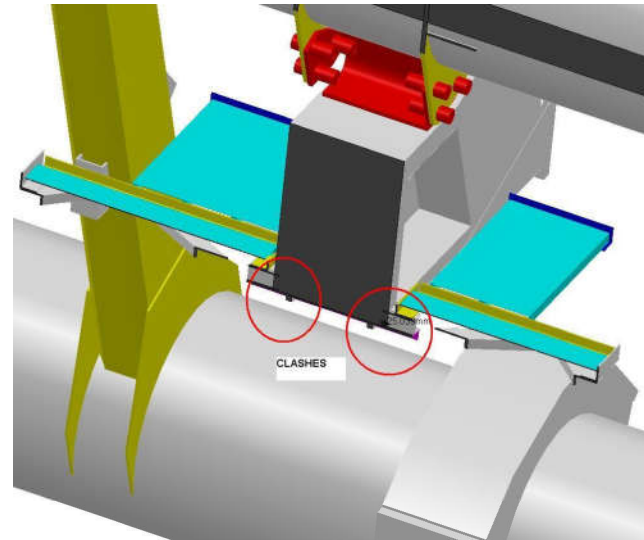
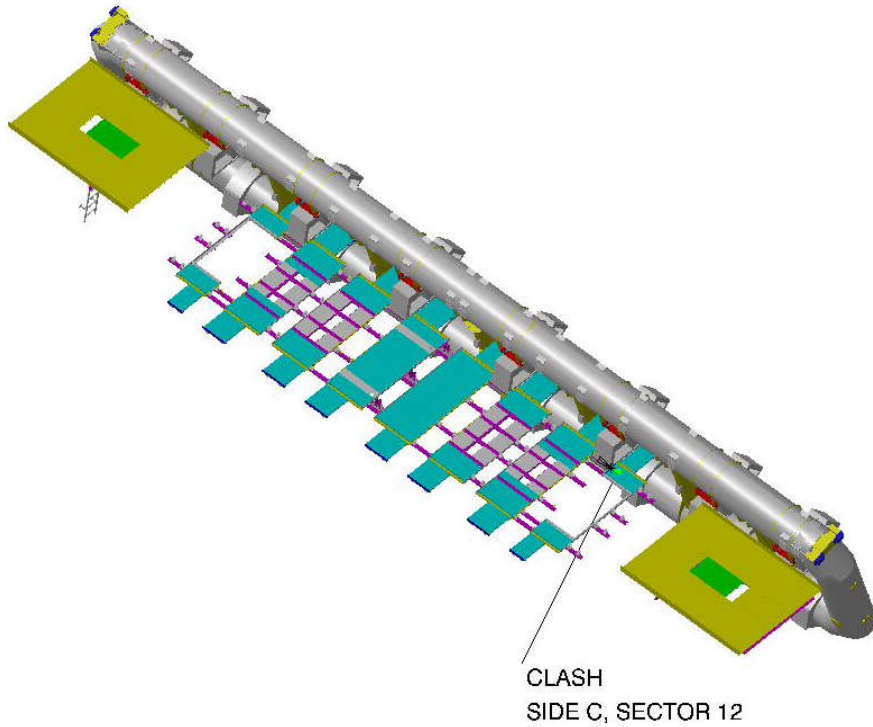
Clearance has been taken 50mm according to L.Nikitina

Results are below.

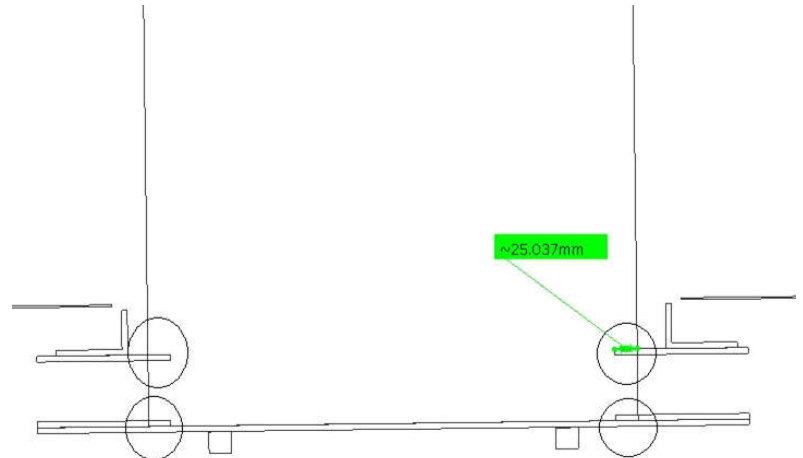
Conflict list of AT392122MQ – *TOP LEVEL ACCESS PLATFORMS (SECTOR 13)*
with Toroid Magnets:

	<i>Platform</i>	<i>Toroid Magnets</i>	<i>Conflict</i>	<i>Value</i>	<i>Status</i>	<i>Revised with</i>	<i>Comments</i>
1	AT392122MQ	NTB__0003 (TB WARM STRUCTURE - SIMPLIFIED 3-D OBJECT)	Clash	-94.78	Cancelled	Olga/Liudmila	NTB_0003 incorrect
2	AT392122MQ	NTB__0002 (TB FEET COIL - SECTOR 12)	Clash	-25.03	Relevant	Liudmila	working on new version
3	AT392122MQ	NTB__0007 (TB FEET COIL - SECTOR 14)	Clash	-25.02	Relevant	Liudmila	working on new version

AT392122MQ - NTB__0003 (TB WARM STRUCTURE - SIMPLIFIED 3-D OBJECT)



Same Clashes with AT392122MQ and NTB__0007
(TB FEET COIL - SECTOR 14), with same value.
No objects from Toroid Magnets are near than 50mm
around the platform.



**Conflict list of AT392122MQ – TOP LEVEL ACCESS PLATFORMS
(SECTOR 13) with Support Structure:**

	<i>Platform</i>	<i>Toroid Magnets</i>	<i>Conflict</i>	<i>Value</i>	<i>Status</i>	<i>Revised with</i>	<i>Comments</i>
1	AT392122MQ	ZHX__0001 (Envelope of Access Structures)	Clash	-314.89	Not Relevant	Liudmila	
2	AT392122MQ	VHB__0001 (CENTRAL PAIR OF FEET B - DETAILED MODEL FOR STANDARDS)	Contact	0	Not Relevant	Liudmila	
3	AT392122MQ	VHB__0002 (STANDARD PAIR OF FEET A1 (C1) - DETAILED MODEL FOR STANDARDS)	Clash	-0.07	Not Relevant	Liudmila	
4	AT392122MQ	VHB__0003 (STANDARD PAIR OF FEET A2 (C2) - DETAILED MODEL FOR STANDARDS)	Clash	-0.07	Not Relevant	Liudmila	
5	AT392122MQ	VHB__0004 (STANDARD PAIR OF FEET A3 (C3) - DETAILED MODEL FOR STANDARDS)	Contact	0	Not Relevant	Liudmila	
6	AT392122MQ	VHB__0005 (EXTREMITY PAIR OF FEET A4 (C4) - DETAILED MODEL FOR STANDARDS)	Contact	0	Not Relevant	Liudmila	
7	AT392122MQ	ATCVHB_0002 M (Mirror of STANDARD PAIR OF FEET A1 (C1) - DETAILED MODEL FOR STANDARDS)	Clash	-0.04	Not Relevant	Liudmila	
8	AT392122MQ	ATCVHB_0003 M (Mirror of STANDARD PAIR OF FEET A2 (C2) - DETAILED MODEL FOR STANDARDS)	Clash	-0.04	Not Relevant	Liudmila	
9	AT392122MQ	ATCVHB_0004 M (Mirror of STANDARD PAIR OF FEET A3 (C3) - DETAILED MODEL FOR STANDARDS)	Contact	0	Not Relevant	Liudmila	
10	AT392122MQ	ATCVHB_0005 M (Mirror of EXTREMITY PAIR OF FEET A4 (C4) - DETAILED MODEL FOR STANDARDS)	Contact	0	Not Relevant	Liudmila	

No objects from Support Structure are near than 50mm around the platform.

Conflict list of AT392122MQ – *TOP LEVEL ACCESS PLATFORMS*
(SECTOR 13) with Services:

	<i>Platform</i>	<i>Toroid Magnets</i>	<i>Conflict</i>	<i>Value</i>	<i>Status</i>	<i>Revised with</i>	<i>Comments</i>
1	AT392122MQ	NSR__0005 (CABLE TRAYS - FOR TB VACUUM PUMPING SYSTEM)	Clash	-9.94	Not Relevant	Liudmila	NSR_0005 Have to be changed

As Liudmila declared NSR_0005 have to be changed. So, Clash has been considered as Not Relevant

No objects from Services are near than 50mm around the platform.

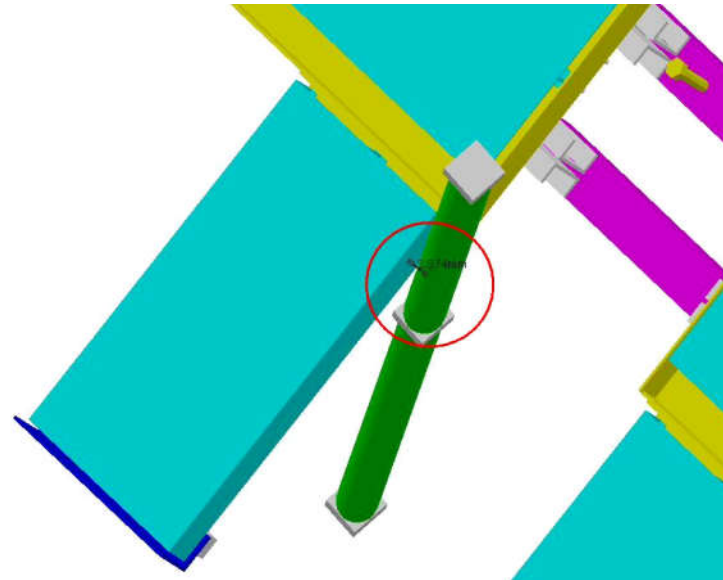
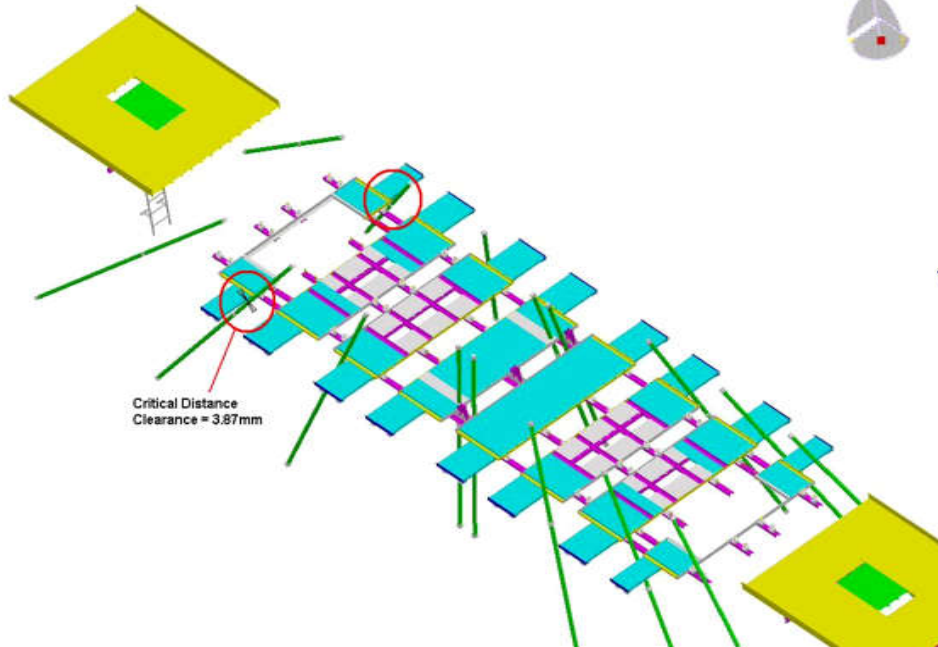
**Conflict list of AT392122MQ – TOP LEVEL ACCESS PLATFORMS
(SECTOR 13) with Alignment:**

	<i>Platform</i>	<i>Toroid Magnets</i>	<i>Conflict</i>	<i>Value</i>	<i>Status</i>	<i>Revised with</i>	<i>Comments</i>
1	AT392122MQ	NMA__0007 (BARREL PROJECTIVE ALIGNMENT. - SIMPLE 3-D MODEL. SECTOR 13)	Clearance	3.87	Relevant	Liudmila	
2	AT392122MQ	NMA__0009 (END CAP ALIGNMENT SIDE "A". - SIMPLE 3-D MODEL)	Clash	-44.9	Relevant	Liudmila	
3	AT392122MQ	NMA__0010 (END CAP ALIGNMENT SIDE "C" - SIMPLE 3-D MODEL)	Clash	-44.86	Relevant	Liudmila	
4	AT392122MQ	NMA__0016 (SECTOR 12 SIDE C (A) - REFERENCE ALIGNMENT SYSTEM AND)	Clearance	21.61	Relevant	Liudmila	
5	AT392122MQ	NMA__0017 (SECTOR 14 SIDE C (A) - REFERENCE ALIGNMENT SYSTEM AND)	Clearance	21.61	Relevant	Liudmila	

AT392122MQ / NMA__0007 (BARREL PROJECTIVE ALIGNMENT. - SIMPLE 3-D MODEL. SECTOR 13)

Clearance 3.87mm

Side A



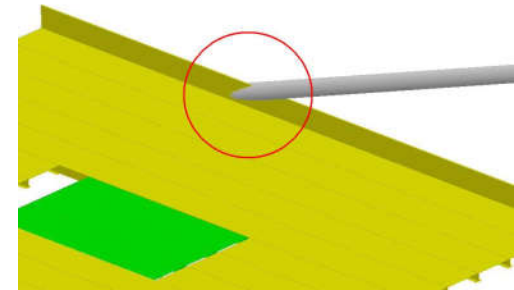
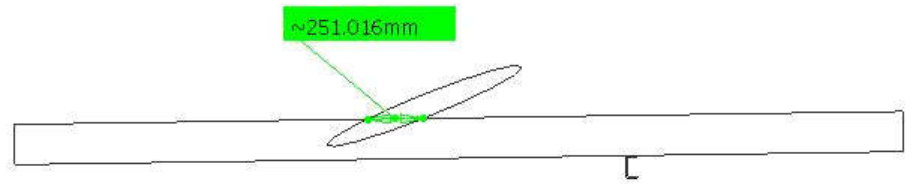
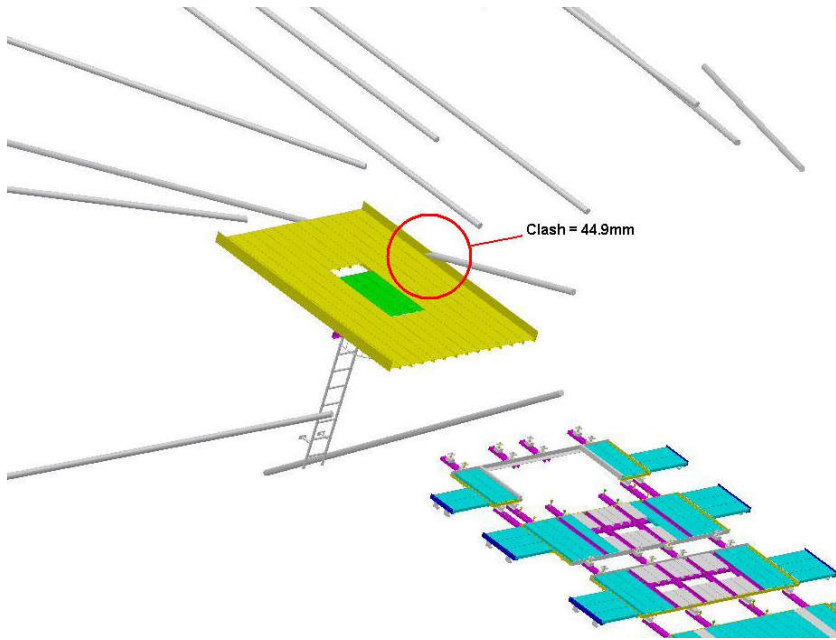
Same conflict occurs on Side C

Side C

AT392122MQ / NMA__0009 (END CAP ALIGNMENT SIDE "A". - SIMPLE 3-D MODEL)

Clash = 44.9mm

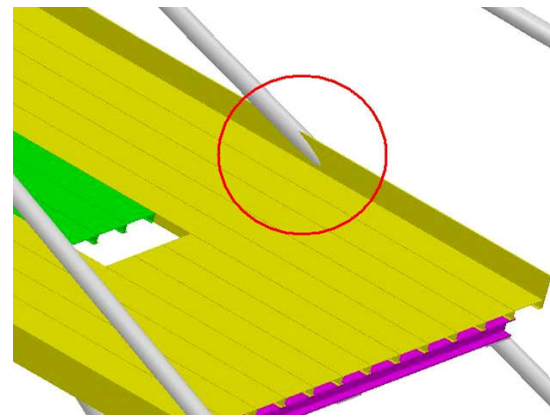
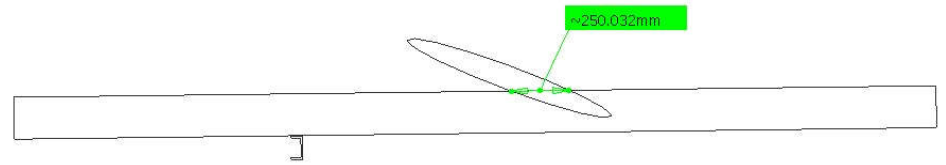
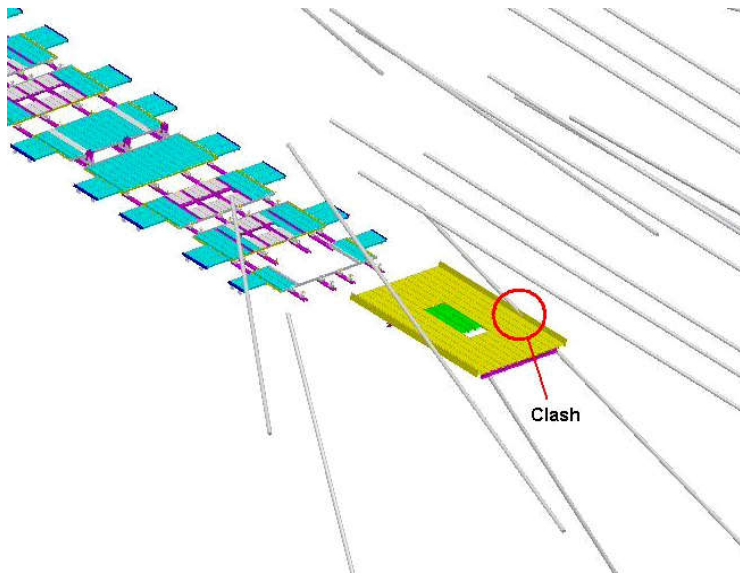
Side A



Side C

AT392122MQ / NMA__0010 (END CAP ALIGNMENT SIDE "C" - SIMPLE 3-D MODEL)
Clash = 44.9mm

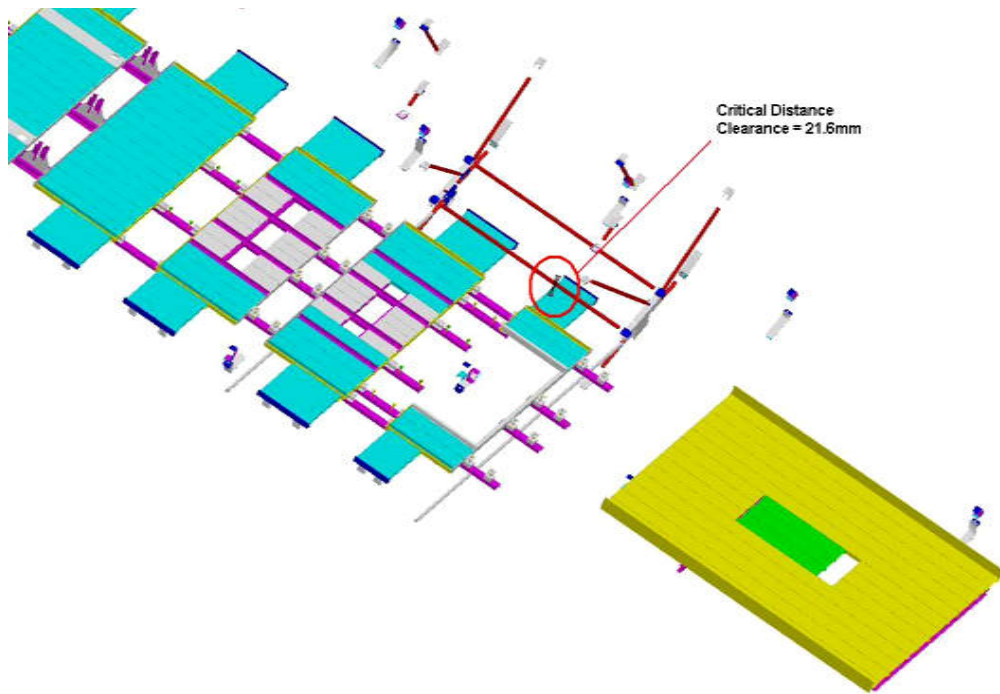
Side A



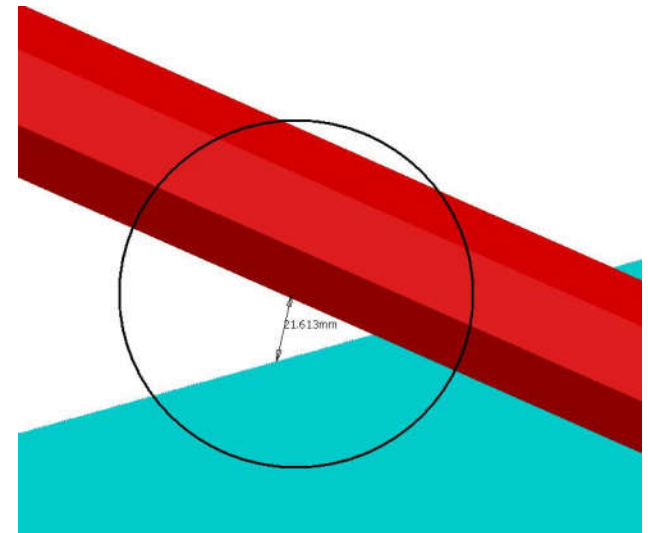
Side C

AT392122MQ / NMA__0016 (SECTOR 12 SIDE C (A) - REFERENCE ALIGNMENT SYSTEM AND)
Clearance = 21.6mm

Side A

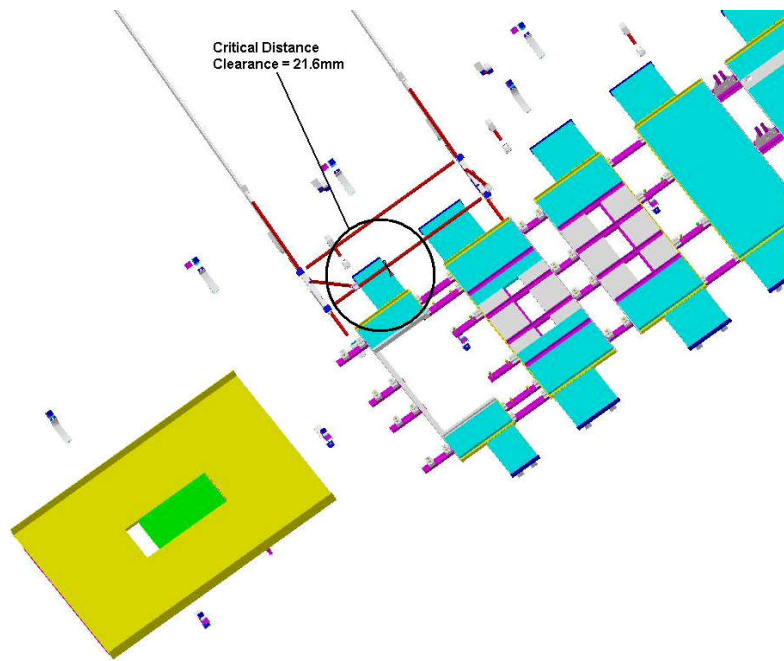
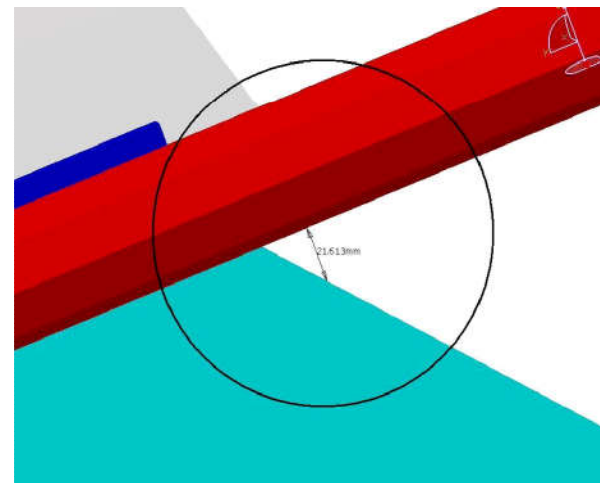


Side C



AT392122MQ / NMA__0017 (SECTOR 14 SIDE C (A) - REFERENCE ALIGNMENT SYSTEM AND)
Clearance = 21.6mm

Side A



Side C

Conclusion: Conflicts with status RELEVANT needs to be considered precisely by integration team to avoid problems for future.