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The Test Cell Configuration under IFMIF-DONES Condition

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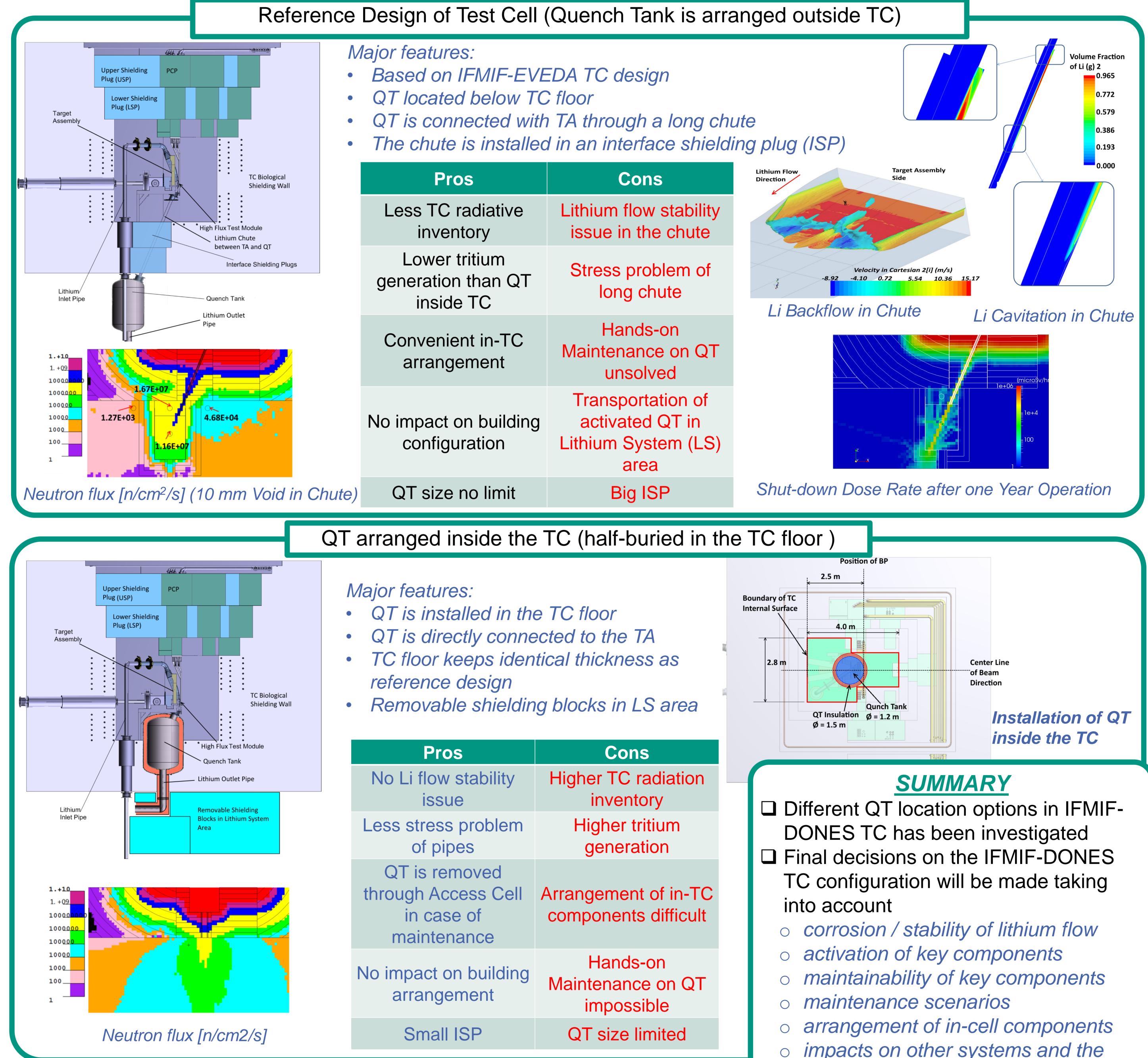
□ IFMIF-DONES (DEMO Oriented NEutron Source) is an intensive neutron source based on the interaction of one 40 MeV 125 mA deuteron beam and a flowing liquid lithium target for fusion material irradiation experiments. Design of IFMIF-DONES Test Cell (TC) inherits, in a large extent, that of IFMIF-EVEDA Test Cell with major changes:

 IFMIF-EVEDA: 2x 125 mA 40 MeV D+ Accelerator *IFMIF DONES:* **1***x* 125 *mA* 40 *MeV D*+ *Accelerator*

IFMIF-EVEDA: <u>HFTM</u>, MFTM, LFTM

IFMIF DONES: HFTM

Design justification expected, key issue: Quench Tank (QT) arrangement and design of relevant components



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EURO*fusion*

in case of maintenance	components difficult
lo impact on building arrangement	Hands-on Maintenance on QT impossible
Small ISP	QT size limited

- impacts on other systems and the building
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