

RPC prototypes fabrication for INO experiment

Quality control data

| | |
|---------------------------|--|
| <i>RPC identification</i> | |
|---------------------------|--|

Overall QC summary

Table 1: Glass plates

| | | |
|-----------------------------------|----------------|----------------|
| <i>Glass make</i> | | |
| <i>Glass cut or resized by</i> | | |
| <i>Parameters</i> | <i>Sheet 1</i> | <i>Sheet 2</i> |
| <i>Length (mm)</i> | | |
| <i>Breadth (mm)</i> | | |
| <i>Thickness (mm)</i> | | |
| <i>Comment on dimensions</i> | | |
| <i>Comment on surface quality</i> | | |
| <i>Cleaned by</i> | | |

Table 2: Spacers & gas nozzles

| | |
|--|---------------|
| <i>Parameters</i> | <i>Values</i> |
| <i>Spacers prepared & cleaned by</i> | |
| <i>Spacers checked by</i> | |
| <i>Nozzles prepared & cleaned by</i> | |
| <i>Nozzles checked by</i> | |

Table 3: RPC assembly

| <i>Parameters</i> | <i>Values</i> |
|---|---------------|
| <i>Glued on (Date & Time)</i> | |
| <i>Glue used (Description)</i> | |
| <i>Glue prepared by</i> | |
| <i>RPC glued by</i> | |
| <i>Gluing checked by</i> | |
| <i>Comments & Observations</i> | |
| <i>Second side gluing done on (Date & Time)</i> | |
| <i>Second side gluing done by</i> | |
| <i>Comments & Observations</i> | |
| <i>Glue repairs done on (Date & Time)</i> | |
| <i>Glue repairs done by</i> | |
| <i>Comments & Observations</i> | |

Table 4: Leak tests

| <i>Parameters</i> | <i>Attempt 1</i> | <i>Attempt 2</i> | <i>Attempt 3</i> |
|---------------------------|------------------|------------------|------------------|
| <i>Date & Time</i> | | | |
| <i>Done by</i> | | | |
| <i>Over pressure (mm)</i> | | | |
| <i>Time waited(hh:mm)</i> | | | |
| <i>Pressure drop (mm)</i> | | | |
| <i>Result (Pass/fail)</i> | | | |

Table 5: Gas flow tests

| <i>Parameters</i> | <i>Attempt 1</i> | <i>Attempt 2</i> | <i>Attempt 3</i> |
|---------------------------|------------------|------------------|------------------|
| <i>Date & Time</i> | | | |
| <i>Done by</i> | | | |
| <i>Flow rate (SCCM)</i> | | | |
| <i>Bubbles /min</i> | | | |
| <i>Result (Pass/fail)</i> | | | |

Table 6: Graphite coating

| <i>Parameters</i> | <i>Attempt 1</i> | <i>Attempt 2</i> | <i>Attempt 3</i> |
|-------------------------|------------------|------------------|------------------|
| <i>Date & Time</i> | | | |
| <i>Proportion</i> | | | |
| <i>Coat prepared by</i> | | | |
| <i>Coated by</i> | | | |
| <i>Comments</i> | | | |

Table 7: Graphite resistance measurements

| <i>Date & Time</i> | <i>Side 1</i> | | <i>Side 2</i> | |
|------------------------|---------------------|---------------------|---------------------|---------------------|
| | <i>Orientation1</i> | <i>Orientation2</i> | <i>Orientation1</i> | <i>Orientation2</i> |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| <i>HV polarity</i> | | | | |

Table 8: *RPC preparation*

| <i>Parameters</i> | <i>Values</i> |
|---|---------------|
| <i>HV contacts prepared on (Date & Time)</i> | |
| <i>HV contacts prepared by</i> | |
| <i>RPC cleaned & mylars stuck on(D & T)</i> | |
| <i>RPC cleaned & mylars stuck by</i> | |

Table 9: High voltage tests

[illegible]