The ZEBRA Critical Assemblies

Most of the documentation referred to below can be obtained on cd or dvd from the OECD-Nuclear Energy Agency (see the list of references at the end).

No. Assembly Description

1 The startup assembly, designed to test the measurement techniques and make comparisons with measurements made in ZPR-III. It was a small (89 elements) uranium fuelled core having an average enrichment of 12% and with a nat. U reflector. (Based on ZPR-III Assemblies 11 and 22).
The core cells had the form:
UU H UUUU H UUU H UUUU H UU
where U denotes the 1/8 inch thick natural uranium plates and E the 1/16 inch thick 93% highly enriched uranium plates. There were 9 core cells per core element.
(see UKAEA Winfrith Reports AEEW-R315, AEEW-R372, AEEW-M525)

2 A 173 element uranium fuelled core of 14% average enrichment and with graphite diluent to give a softer spectrum than Assembly 1, similar to that calculated for a fast power reactor. The reflector was natural uranium.
The core cells had the form:
CUC E CUCUCUC H CUCUCUC E CUC
where E denotes the 1/8 inch thick 37.5% enriched uranium plates and C the 1/8 inch thick graphite plates. There were 12 core cells per core element and 173 core elements in the critical assembly.
(AEEW-R410, AEEW-R372, AEEW-R415, AEEW-M525)

3 A small (57 element) Pu/Unat assembly with a Pu/U ratio of about 0.11 and a critical mass of 81kg of Pu-239. The axial and radial reflectors were of natural uranium, ~30 cm thick.
The core cells had the form:
UU P UUUUU P UU
where P denotes the 1/8 inch thick plutonium plates. There were 10 core cells per core element and 57 core elements in the critical assembly (including the 6 control rods which contained smaller width plutonium plates)
(AEEW-R461, AEEW-M525)

4 Similar to Assembly 2 (AEEW-R433)
4A – a radial sector blanket study in support of the design of the UK Prototype Fast Reactor, PFR.
(AEEW-R405)
4B and 4C – a heterogeneous axial reflector study for PFR

5 A mixed critical assembly used primarily for heated loop Doppler effect measurements.
(AEEW-R481, AEEW-R465)

6 A plutonium-fuelled fast critical assembly with natural uranium, 1/8 inch thick graphite and ¼ inch thick sodium plates, critical mass 190kg (Pu239 + Pu241). The plutonium was of two isotopic compositions, 5% Pu240 and 10% Pu240 (there being three types of 5% Pu240 fuel having slightly different compositions). The reflector consisted of natural uranium and graphite. There were 4 variants, 6A, 6B, 6C and 6D, with 6D having the

same composition as 6A but with the sodium removed. In 6A the elements containing the two types of plutonium were distributed uniformly in the core whereas in 6B the higher Pu240 content fuel elements were grouped in the central region whereas in 6C the lower Pu240 content fuel was in the central region.
Plates in the core cell were stacked both horizontally and vertically, the sodium plates being held vertically to help in the removal of these in the sodium voiding experiments.
(AEEW-R567)

7 A full-scale mock-up of the PFR (fuelled with Pu239 + U235). The materials available at that time did not permit the whole core to be fuelled with plutonium and to contain sodium and so enriched uranium and aluminium were used to supplement the plutonium and sodium. The assembly was built in several versions.
(AEEW-R591, AEEW-R636)

8 A series of seven zero leakage test zones in the central region of the core, 8A to 8G, consisting of plate cells with k-infinity close to unity and fast or intermediate neutron-spectra. 8G/2 was built to examine pin-plate geometry differences. Spectrum measurements were also performed.
Int. Handbook of Evaluated Criticality Safety Benchmark Experiments, Vol.VI, MIX-MET-FAST-008
(AEEW-R646, AEEW-R721, AEEW-R888, AEEW-R893, AEEW-R2245, ZERS 8 series of Technical Notes.)

9 A simple two region assembly, comprising core and reflector. The core contained Pu metal plates, $PuUO_2$ and UO_2 plates, together with steel and graphite diluent plates. The core had a natural U reflector. There were 217 and 221 core element versions. Buckling measurements and foil irradiations were performed.
Core cell pattern: OSSGPGSSOSSMSS where
O denotes the ¼ inch thick UO_2 plate,
M denotes the ¼ inch thick $PuUO_2$ mixed oxide plate
P denotes the 1/8 inch thick plutonium metal plate
and S and G the1/8 inch thick stainless steel and graphite plates
(The ZERS 9 Experimental Results Series).
221 element version contained 3l0kg (Pu239 + Pu241)

10 A core containing Pu metal plates, $PuUO_2$ and UO_2 plates with graphite diluent and a natural uranium reflector (the ZERS 10 Experimental Results Series).
Core cell pattern: OOPGGOOMGG
The measurements included bucklings, small sample reactivity worths for polythene, D_2O, Li-6, B-10 and core constituents, and reaction rate ratio measurements using several different techniques. Reaction rate intercomparisons were made with the MASURCA team at Cadarache, France (with discrepancies noted for F8/F5 and C8/F5). Also TOF spectrum measurements were made.
241 element version ~303kg (Pu239 + Pu241).

Interpretation of the buckling measurements, to derive a single buckling, is complicated by the different spatial variations of the different fission rates, F5, F8, F9, F7, and inhomogeneities in the core composition.

The Japan/UK Mozart programme. Studies in support of the design of MONJU.

Described in the MTN series of Technical Notes and summarised in papers to the Proc. Int. Symp. on the Physics of Fast Reactors, Tokyo (1973).

See the documents ZEBRA-LMFR-EXP-002 (for MZA and MZB) and ZEBRA-LMFR-EXP-003 (for MZC) on this web site where the measurements are presented as benchmarks.

11 MZA - a single zone core with sodium diluent Reaction rate distributions, neutron spectrum measurements, spectral indices.
318kg (Pu239 + Pu241)

12 MZB – a representation of the clean MONJU reactor. A two zone core of the size of MONJU. In addition to the core physics measurements neutron and gamma ray scans were measured through the blanket and reflector regions. Vapour explosion and fuel meltdown simulations were also studied.
794kg (Pu239 + Pu241)

MZC - MONJU mock-up with control rods. The mock-up control rods contained 19 pin clusters (1+6+12 inside a cylinder). The absorber pins were of natural B_4C, 80% enriched and 90% enriched B_4C, and tantalum. Reactivity worth measurements were made for different types and configurations of rods and sodium filled rod followers, together with fission rate distributions within the rods and in the core. The effect of sodium voiding on rod worths was also measured.
960kg (Pu239 + Pu241)

The second PFR mock-up core

13 Equilibrium PFR mock-up with singularities (nine different core loadings, including changes to the breeder regions).
Reaction rate scans in breeder regions, gamma energy deposition, sodium voiding.
Reaction rates in and near PFR simulated control rods and the effects of sodium voiding on rod worth. (AEEW-R1388, ZTN-13 series of Technical Notes.)

14 Assembly 13 with modified singularity loadings (two different loadings) (1974-75)
(the ZTN-14 series of Technical Notes, AEEW-R1035, NEACRP-U-75.)
The relative reactivity worths of 21 potential absorber materials were measured together with the effects of hydrogen moderation on control rod performance.
The gamma ray activity induced in sodium, steels, cobalt, molybdenum and tantalum, and the fission rate distribution near to an Sb-Be source were also measured.

The Bizet Programme, in support of the design of the European Fast Reactor, EFR. (Belgium, Germany, The Netherlands, UK).
Described in the BTN series of Technical Notes.

15 BZA – a large conventional two zone reactor with 19 simulated control rod channels.
Measurements included: reactivity worths for sodium and core materials, and spectral indices.
BTN/21 to /32, /35, /51, /53, /85
Inner core enrichment (Pu/Pu+U) 16%; outer core enrichment 21%

16 BZB - extension of BZA with 27 simulated control rod channels and part-inserted B_4C absorbers (*4 versions*).

Measurements included: sodium voiding; effects of hydrocarbons; Pu-239 fission rate scans with different arrays of absorbers; reaction rates in absorbers.
BTN/39 to /45, /52, /55, /57, /59, /60, /66, /67, /73, /77, /82, /90, /91, /93, /95, /101, /102, /109, /110, /127, /135.

17 BZC - large heterogeneous design with 15 UO_2-Na fertile-elements in a "salt-and-pepper" arrangement. Fissile enrichment (Pu/Pu+U) 24%. 16 simulated control rod positions with followers in BZC/1 and B_4C absorbers in BZC/2. Measurements included: reaction rate distributions; large scale sodium voiding reactivity; absorber worths and interactions.
BTN/65, /68, /74, /84, /86, /88, /89, /103, /120, /122, /130, /140

18 BZD/1 – an extension of BZC with fertile elements collected together to form a central fertile zone. 12 simulated control rod positions containing 1/2 inserted B_4C absorbers. Measurements included large scale sodium voiding effects.
BTN/79, /80, /123, /124

19 BZD/1-A - derived from Assembly 18 with a reduced central fertile zone (from 241 to 121 lattice positions) and relocating 90 fertile elements in a thin ring at approximately mid-radius of the fissile annulus.
BTN/92, /98, /131

19 BZD/2 - as Assembly 18 but with followers in simulated control rod positions. Reactions rate measurements in core and breeder regions; reactivity worths of fuel and sodium.
BTN/111, /114, /118

21 BZD/3 - as Assembly 18 but with a uniform fissile region without singularities. The measurements included some long irradiations of materials to obtain activation data.
BTN/108, /113, /118, /125, /129, /133, /137

The Cadenza cores (1980 -1982)**.**

Intercomparison of the heterogeneity effects of plutonium/uranium fuel in plate and pin geometry form (NEACRP A 445). (The ZTN-22 series of Technical Notes.) The studies were used to define the NEACRP Pin-Plate Benchmark.
See the document ZEBRA-LMFR-EXP-001 on this web site where the measurements are presented as benchmarks.

22 The normal plate cell geometry core.
The compositions of the core sections of the fissile elements were the same as those of the elements used in the heterogeneous assemblies BZC and BZD but the axial blanket regions were of natural uranium. In version 22B there was a rearrangement of the axial orientation of cells because sodium voiding experiments had shown a strong axial asymmetry. The core contained 215 fissile elements. Reactivity perturbation measurements were made for constituents of the cells, including oxygen, steel, graphite and aluminium, and the effects of changing the heterogeneity of the geometry, using thinner plates. The standard spectral indices were also measured, together with reaction rate fine structure through the plates. Although several different plutonium metal plates were used the simplification is usually made that they are equivalent, the equivalence having been measured.

23 Normal pin cell geometry core.
The plate elements of Assembly 22A were progressively replaced with mini-calandria pin fuelled elements occupying up to 168 lattice positions, with the remaining 49 plate elements (in the standard version) being at the core radial boundary. Measurements were also made of the reactivity effects of interchanging small groups of elements. Reactivity perturbation measurements were made in pin geometry for the constituent materials.

24 Sodium voided plate cell core.
This contained 231 elements with the sodium plates of assembly 22 replaced by "steel dummies". A number of reactivity perturbation measurements were made.

25 Sodium voided pin cell core.
A 243 element core. The 168 mini-calandria elements of Assembly 23 were replaced with sodium voided mini-calandria containing the same fuel pins. The plate elements surrounding the pin geometry region were also replaced by sodium voided elements and additional plate geometry elements added at the core boundary to make the assembly critical.

Documentation and data sources.

As mentioned above, a comprehensive set of ZEBRA documentation can be obtained on cd (or dvd) from the OECD-Nuclear Energy Agency. The contents is listed starting on the following page.

The compositions of the components are detailed in the Zebra PLATEDATA Data Library, used by the PLATEDATA program to produce atomic densities.

REFERENCES

1. UKAEA Atomic Energy Establishment, Winfrith, Memoranda (AEEW-M series) and Reports (AEEW-R series)

Authors	Title	Document Identifier	Date
G . INGRAM , D . J . MCKENNA	INFLUENCE OF REACTOR MODEL ON CALCULATED CENTRAL PERTURBATION CROSS - SECTIONS IN ZEBRA CORES 1 , 2 AND 3	AEEW-M525	June-65
G . INGRAM , R . M . ABSALOM , M . J . ARNOLD , A . R . BAKER , A . M . BROOMFIELD , S . K . I . PATTENDEN , J . M .STEVENSON	THE FIRST CORE OF ZEBRA	AEEW-R315	October-63
G . INGRAM , D . FURNEAUX , D . CRUSE , D . MCKENNA , N . WATERHOUSE	CENTRAL PERTURBATION CROSS - SECTIONS IN ZEBRA CORES 1 AND 2	AEEW-R372	April-64
R . M . ABSALOM , M . J . ARNOLD , A. R . BAKER , A . M . BROOMFIELD , S . K . PATTENDEN , C . R . PATTERSON , J . M. STEVENSON	ZEBRA ASSEMBLIES 4 B AND 4 C / STUDIES OF HETEROGENEOUS AXIAL REFLECTORS FOR THE P F R	AEEW-R405	December-64
A . M . BROOMFIELD , R . M. ABSALOM ; M . J . ARNOLD , A . R . BAKER , D . FURNEAUX , G . INGRAM , S . K . I . PATTENDEN , C . R PATTERSON , J . M . STEVENSON	THE SECOND CORE OF ZEBRA	AEEW-R410	January-65
D . J . GOOCH	THE DOPPLER TEMPERATURE COEFFICIENT OF ZEBRA CORE 2	AEEW-R415	January-65
S . K . I . PATTENDEN , A . M . BROOMFIELD , R . M . ABSALOM , G . INGRAM , M . J . ARNOLD , C . R . PATTERSON , A . R . BAKER , J . M . STEVENSON	ZEBRA ASSEMBLY 4A / THE STUDY OF REALISTIC RADIAL BLANKET FOR THE PFR	AEEW-R433	May-65
J . ADAMSON , R . M . ABSALOM , M . J . ARNOLD , A . R . BAKER , A . M . BROOMFIELD , D . FURNEAUX , G . INGRAM , S . K . I . PATTENDEN , C . R . PATTERSON , J . M. STEVENSON	THE THIRD CORE OF ZEBRA	AEEW-R461	October-65
A . R . BAKER , R . C . WHEELER	DOPPLER COEFFICIENT MEASUREMENTS IN ZEBRA CORE 5	AEEW-R465	1965
R . C . WHEELER , R . M . ABSALOM , A . R . BAKER , A . M . BROOMFIELD D. FURNEAUX , G . INGRAM , D . JOWITT , S . K . PATTENDEN , C . R . PATTERSON , M . F . SMITH , J . M . STEVENSON	ZEBRA CORE 5 STUDIES OF A MIXED CRITICAL CORE WITH A CENTRAL DILUTE PLUTONIUM REGION	AEEW-R481	May-66
J . ADAMSON , D . JOW I TT , R . M . ABSALOM , S . K . I . PATTENDEN , A . R . BAKER , C . R . PATTERSON , D . FURNEAUX , M . F . SMITH , G . INGRAM , J . M . STEVENSON	ZEBRA 6 - A DILUTE PLUTONIUM - FUELLED ASSEMBLY	AEEW-R567	January-68
J . M . STEVENSON	ZEBRA ASSEMBLY 7A - A PFR MOCK -UP	AEEW-R591	March-68
A . R . BAKER , M . E . GUBBINS	RE -EVALUATION OF THE EXPERIMENTAL RESULTS FOR SIMULATED PFR CONTROL AND SHUT - OFF ROD MEASUREMENTS IN ZEBRA 7C	AEEW-R636	November-69

B . L . H . BURBIDGE , I . H . GIBSON , J . P . HARDIMAN , D . JAKEMAN , J . MARSHALL	ANALYSIS OF TIME - OF - FLIGHT SPECTRUM MEASUREMENTS IN SOME ZEBRA PLUTONIUM ASSEMBLIES	AEEW-R646	November-76
A . M . BROOMFIELD , M . D . CARTER	PROTON RECOIL COUNTER SPECTRUM MEASUREMENTS IN ZEBRA ASSEMBLY 8	AEEW-R721	11/01/1976
B . H . BURB I DGE , G . INGRAM , D . JOWITT , J . E . SANDERS	ZEBRA 8H - A U -235 / U - 238 FAST REACTOR BENCHMARK	AEEW-R888	July 1973
D . WARDLEWORTH	THE INTERPRETATION OF MEASUREMENTS IN ZEBRA CORE 8	AEEW-R893	October-73
B . L . H. BURBIDGE , J . MARSHALL	MEASUREMENT AND ANALYSIS OF REACTION RATES IN RADIAL BREEDER REGIONS OF ZEBRA ASSEMBLY 13	AEEW-R1388	November-80
D . HANLON , B . M. FRANKLIN , J . M . STEVENSON	CALCULATIONS FOR THE INTERMEDIATE - SPECTRUM CELLS OF ZEBRA 8	AEEW-R2245	10-January-87

2. Technical Notes Describing the BIZET Programme.

AUTHORS	TITLE	Document Identifier	Date
W. SCHOLTYSSEK	DESCRIPTION OF ZEBRA EXPERIMENTAL TECHNIQUES , DATA ACQUISITION AND DATA FLOW	BTN16	21-October-76
J . E . SANDERS	BZA EXPERIMENTAL PROGRAMME	BTN17	11-August-76
W. SCHOLTYSSEK	ZEBRA / SNEAK INTERCALIBRATION OF REACTION RATE MEASUREMENTS TECHNIQUES	BTN18	11-May-76
J . M. STEVENSON	DETAILS OF PINS AND MINI - CALANDRIA AT ZEBRA	BTN19	22 / 12 /1976
J . E . SANDERS	INTEGRAL VALIDATION OF THE SPECTRUM IN THE DOPPLER REGION	BTN20	22 / 12 / 1976
J . M . STEVENSON	DESCRIPTION OF THE STANDARD CORE LOADING OF BZA / 1	BTN21	04/02/1977
J . M. STEVENSON	REACTIVITY MEASUREMENTS IN ASSEMBLY BZA / 1 - ENRICHMENT CHANGES AND SODIUM VOIDING	BTN22	04/02/1977
J . M . STEVENSON , S . F . SWOBODA	COMPARISON OF PROPERTIES OF PLATE CELLS WITH DIFFERENT BATCHES OF ZEBRA PLUTONIUM METAL PLATES AND WITH DIFFERENT SODIUM PLATES	BTN23	08/02/1977
F . KAPPLER , J . M . STEVENSON	COMPARISON OF KARLSRUHE AND WINFRITH CALCULATIONS FOR AN RZ MODEL OF BZA	BTN24	?
A . J . JANSSEN , W . P . VOORBRAAK	INTERPRETATION OF INTEGRAL SPECTRUM MEASUREMENTS IN THE DOPPLER REGION - SOME INTERIM RESULTS	BTN25	March 1977
J . M . STEVENSON	DESCRIPTION OF THE STANDARD CORE LOADING OF BZB /1	BTN26	04/01/1977
D . W . SWEET , J . MARSHALL	CALIBRATION OF THE ZEBRA CONTROL RODS IN BZA	BTN27	04/01/1977
G . INGRAM	THE EXPERIMENTAL REACTIVITY OF BZA/1	BTN28	04/01/1977
B . M . FRANKLIN , W . SCHOLTYSSEK	SOURCE MULTIPLICATION MEASUREMENTS IN BZA	BTN29	05/01/1977
D . W . SWEET	MULTICHAMBER PU239 FISSION SCAN RESULTS FROM BZA	BTN30	04/01/1977
J . M STEVENSON	COMPOSITIONS FOR NINE - ELEMENT SINGULARITIES USED IN ZEBRA WITH PARTICULAR REFERENCE TO ASSEMBLIES BZA AND BZB	BTN31	05/01/1977
B . L . H BURBIDGE , MISS P . A. SMART	REACTION RATE DISTRIBUTIONS IN THE CORE REGION OF BZA /3	BTN32	05/01/1977
J . E . SANDERS	THE EXPERIMENTAL PROGRAMME BZB	BTN33	11/05/1977
J . E . SANDERS	THE EXPERIMENTAL PROGRAMME BZB	BTN33-AD	19/09/1977
A . J . JANSSEN , W. P. VOORBRAAK	PRODUCTION OF A FINE GROUP AND BROAD GROUP DATA SET FOR COBALT	BTN34	05/01/1977
A . J . JANSSEN , W. P. VOORBRAAK	INTERPRETATION OF INTEGRAL SPECTRUM MEASUREMENTS IN THE DOPPLER REGION ; PART 2	BTN35	05/01/1977
G. HENNEGES	CONSIDERATION OF HETEROGENEOUS CORES FOR ZEBRA	BTN36	06/01/1977
W . SCHOLTYSSEK , M . SCHWARTZ , S. PILATE	METHODS OF CALCULATION AND SHARE OF WORK FOR BIZET EVALUATIONS (SNR PROJECT)	BTN37	06/01/1977

M . F . MARCH , M . F . MURPHY , W . SCHOLTYSSEK , W . H . TAYLOR	INTERCOMPARISON OF SNEAK AND ZEBRA FISSION CHAMBERS IN NESTOR THERMAL COLUMN	BTN38	07/01/1977
D . W . SWEET , J . MARSHALL	CALIBRATION OF THE ZEBRA CONTROL RODS IN BZB /1	BTN39	07/01/1977
J . MARSHALL , J . M STEVENSON	CALIBRATION OF THE ZEBRA CONTROL RODS IN BZB /3	BTN40	07/01/1977
J . M . STEVENSON , J . MARSHALL	CRITICAL ABSORBER ARRAYS IN BZB AND THEIR EXCESS REACTIVITIES	BTN41	07/01/1977
G . HENNEGES , J . M . STEVENSON	PROPOSED CELL DESIGNS FOR HETEROGENEOUS CORES IN ZEBRA	BTN42	08/01/1977
B . L . H . BURBIDGE , G . HENNEGES , G . INGRAM , W . SCHOLTYSSEK , MISS P . A . SMART	SODIUM VOID EXPERIMENTS IN BZB	BTN43	05/08/1977
B . L . H . BURBIDGE , G . HENNEGES , G . INGRAM , W . SCHOLTYSSEK , MISS P . A . SMART	SODIUM VOID EXPERIMENTS IN BZB	BTN43-RE	26/02/1979
A . D . KNIPE	MULTICHAMBER PU239 FISSION RATE SCANS DURING THE BZB CRITICAL ABSORBERS ARRAY STUDY	BTN44	09/01/1977
J . M STEVENSON	THE EFFECTS OF ABSORBERS AND HYDROGEN UPON CENTRAL SODIUM - VOID MEASUREMENTS	BTN45	09/01/1977
G . INGRAM	INFLUENCE OF WATER IN VOIDED MINI - CALANDRIAS ON SODIUM - VOID MEASUREMENTS	BTN46	15-November-77
G . HENNEGES , J . M . STEVENSON , F . S . SWOBODA	FINAL CRITICALITY PREDICTIONS FOR THE FIRST HETEROGENEOUS BIZET CORES	BTN47	11/01/1977
R . SUNDERLAND	CALCULATIONS OF THE REACTIVITIES OF THE CRITICAL ABSORBER ARRAYS IN ASSEMBLY BZB / 2 AND THE PU239 FISSION RATE DISTRIBUTION IN THE CORE	BTN48	12/01/1977
B . M . FRANKLIN , M . GRIMSTONE , J . M . STEVENSON	STUDIES OF CROSS - SECTION PREPARATION FOR MIXED PIN CELLS IN THE BIZET CORES	BTN49	01/01/1978
J . E . SANDERS	THE EXPERIMENTAL PROGRAMME FOR BZC/1 AND 2	BTN50	02/01/1978
B . L . H . BURBIDGE , MISS P . A . SMART , D . W . SWEET	CENTRAL REACTION RATE RATIO MEASUREMENTS IN ZEBRA CORE 15 (BZA /2)	BTN51	Not dated - probably 1978
W . H . TAYLOR , M . F . MURPHY , R . BÖHME , M . R . MARCH	RESULTS OF ABSOLUTE NEUTRON REACTION RATE DETERMINATIONS IN THE NORMAL AND VOIDED BZB CORE	BTN52	03/01/1978
P . VANDEPLAS , B . L . H . BURBIDGE , J . MARSHALL , B . M . FRANKLIN	CONTROL ROD REACTIVITY MEASUREMENTS IN BZA PULSED - SOURCE TECHNIQUE	BTN53	04/01/1979
R . BÖHME	ESTIMATED CORRECTION FACTORS FOR RECTION - RATE MEASUREMENTS IN FERTILE ZONES OF BZC	BTN54	03/01/1978
J . M . STEVENSON	THE RELATIVE WORTHS OF NATURAL B4C , 40 % ENRICHED B4C AND EU203 CONTROL ROD ABSORBERS IN ASSEMBLY BZB	BTN55	03/01/1998
M . SHWARTZ , S . PILATE , F . S . SWOBODA , J . M . STEVENSON	SODIUM VOID CALCULATIONS FOR ASSEMBLY BZC / 1 AND COMPARISONS WITH A HOMOGENISED VERSION	BTN56	05/01/1978
B . M . FRANKLIN , S . PILATE , M . SCHWARZ , J . M STEVENSON	CONTROL ROD WORTH MEASUREMENTS IN BZB USING THE SOURCE MULTIPLICATION TECHNIQUE	BTN57	05/01/1978
H . GIESE	NA - VOID CALCULATIONS FOR ASSEMBLY BZD	BTN58	05/01/1978

A . D . KNIPE , G . INGRAM	LARGE SCALE SODIUM VOID MEASUREMENTS IN BZB	BTN59	05/01/1978
W . N . SIMMONS	THE ANALYSIS OF THE LARGE PLATE ZONE SODIUM - REMOVAL EXPERIMENT IN BZB/3	BTN60	05/01/1978
J . M . STEVENSON , F . S . SWOBODA	PROGRESS IN THE ANALYSIS OF BZA	BTN61	05/01/1978
D . M . JONES	A SUPERCELL SURVEY OF HETEROGENEOUS ' SALT - AND - PEPPER ' CORES	BTN62	05/01/1978
B . RICHARDSON , R . SUNDERLAND , D . E . THORNTON	ECONOMIC AND SAFETY PARAMETERS OF A RANG OF DOUBLE ANNULAR CFR DESIGNS	BTN63	05/01/1978
R . BÖHME , M . J . GRIMSTONE , J . L . ROWLANDS	A PROPOSED STUDY OF CELL AVERAGED CROSS SECTIONS FOR IN - CORE BREEDER ELEMENTS AND CORE BREEDER BOUNDARIES	BTN64	06/01/1978
G . INGRAM , J . M . STEVENSON	A DESCRIPTION OF THE STANDARD LOADING OF BZC /1	BTN65	07/01/1978
J . M . STEVENSON , W . N . SIMMONS	THE RELATIVE WORTHS OF A CENTRAL B4C ABSORBER IN NORMAL AND SODIUM VOIDED ENVIRONMENTS IN BZB	BTN66	07/01/1978
R . BÖHME , F . S . SWOBODA	STATUS OF THE EVALUATION OF LOW ENERGY SPECTRAL INDICES MEASUREMENTS PERFORMED IN BZB	BTN67	08/01/1978
W . H . TAYLOR , M . F . MURPHY , R . BÖHME , M . R . MARCH	RESULTS OF ABSOLUTE NEUTRON REACTION RATE DETERMINATIONS IN FISSILE AND FERTILE REGIONS OF THE BZC CORE IN ZEBRA	BTN68	03/01/1979
J . E . SANDERS	EXPERIMENTAL PROGRAMME FOR BZD / 1	BTN69	August 1978
G . INGRAM	EXPERIMENTAL PROGRAMME FOR BZD / 1	BTN69-RE	12/01/1978
H . GIESE	CRITICALITY PREDICTION FOR ASSEMBLY BZD / 1	BTN70	09/01/1978
J . M . STEVENSON , F . KAPPLER	THE CONSISTENCY OF WINFRITH AND KFK K - VALUES FOR THE DESIGN AND FINAL ANALYSIS CALCULATIONS FOR BZA / 1	BTN71	09/01/1978
J . M . STEVENSON , F . S . SWOBODA	CONSIDERATION OF CELL HETEROGENEITY EFFECTS IN ASSEMBLY BZA	BTN72	10/01/1978
B . L . H . BURBIDGE , M . R . MARCH , MISS P . A . SMART	REACTION RATE DISTRIBUTION IN ASSEMBLY BZB / 2	BTN73	10/01/1978
J . M . STEVENSON	ENRICHMENT AND SMALL - ZONE SODIUM VOID MEASUREMENTS IN THE CORE BZC / 1	BTN74	10/10/1978
J . M . STEVENSON	INFLUENCE OF THE CALCULATIONAL METHODS UPON THE INTERPRETATION OF THE SMALL - ZONE SODIUM - VOID MEASUREMENTS IN ASSEMBLY BZC/1	BTN74-AD	10/01/1979
J . MARSHALL	SOME NOTES OF THE CALIBRATION OF ZEBRA CONTROL RODS	BTN75	11/01/1978
J . MARSHALL , G . INGRAM	CALIBRATION OF ZEBRA CONTROL RODS IN BZC / 1	BTN76	11/01/1978
B . M . Franklin , S . W . Pilate , M . Schwarz , J . M . Stevenson	SUBCRITICAL MONITORING STUDIES IN BZB / 3	BTN77	11/01/1978
H . GIESE	PARAMETRIC STUDY OF SINGLE ANNULAR CORES IN A SIMPLIFIED RZ - MODEL	BTN78	12/01/1978
A . D . KNIPE	VARIATIONS IN THE PU239 FISSION - RATE DISTRIBUTION WITH CORE LOADING IN BZD / 1 USING THE MULTI-FISSION CHAMBER SCANNING SYSTEM	BTN79	12/01/1978
J . M . STEVENSON	ENRICHMENT AND SMALL - ZONE SODIUM - VOID MEASUREMENTS IN ASSEMBLY BZD/ 1	BTN80	01/01/1979

J . M . STEVENSON	INFLUENCE OF TH CALCULATIONAL METHODS UPON THE INTERPRETATION OF THE SMALL - ZONE SODIUM - VOID MEASUREMENTS IN ASSEMBLY BZD/1	BTN80-AD	10/01/1979
H . GIESE , F. S. SWOBODA	BZD / 1 - A , A PROPOSED MODIFICATION OF THE SINGLE ANNULAR CORE BZD / 1	BTN 81	02/01/1979
A . D. KNIPE	EXPERIMENTAL STUDY OF THE INFLUENCE OF A SINGLE ELEMENT ABSORBER AND DISTRIBUTED ABSORBERS ON SODIUM VOID REACTIVITY IN BZB	BTN82	07/01/1979
W . N . SIMMONS	EVALUATION OF THE EFFECTS OF FUEL ARRANGEMENT AND CROSS - SECTION DATA ON THE DELAYED NEUTRON FRACTION FOR BZB	BTN 83	02/01/1979
J . MARSHALL , G . INGRAM	CALIBRATION OF ZEBRA CONTROL - RODS IN BZC / 2	BTN84	03/01/1979
B . M FRANKLIN	A REVISED ANALYSIS OF SOURCE MULTIPLICATION MEASUREMENTS IN BZA	BTN85	04/01/1979
A . D . KNIPE , R . DE WOUTERS	THE GAMMA - RAY ENERGY DEPOSITION MEASUREMENTS IN BZC / 1 AND THEIR ANALYSIS	BTN86	06/01/1979
J . E . SANDERS	THE EXPERIMENTAL PROGRAMME FOR BZD / 1A AND BZD /2	BTN87	05/01/1979
H . GIESE	A REVISED SPECIFICATION OF THE CORE LAYOUT OF ASSEMBLY BZD / 1A	BTN88	05/01/1979
A . D . KNIPE , J . MARSHALL , J . M STEVENSON	STUDIES OF INTERACTIONS AND FLUX TILTS PRODUCED BY A SINGLE ABSORBER AND AN ENRICHED ZONE IN BZD / 1	BTN89	05/01/1979
B . L . H . BURBIDGE , M . R . MARCH , MISS P . A . SMART	RHODIUM FOIL SCANS IN BZB / 2	BTN90	06/01/1979
B . M . FRANKLIN	MEASUREMENT OF THE REACTIVITY WORTH PROFILE OF A RING OF ABSORBERS IN BZB / 3 BY SUBCRITICAL COUNTING METHODS	BTN91	06/01/1979
J . M STEVENSON	ENRICHMENT AND SMALL - ZONE SODIUM VOID MEASUREMENTS IN ASSEMBLY BZD / 1A	BTN92	06/01/1979
B . L . H . Burbidge , G . Ingram , Miss P . A . Smart , A . D . Knipe	MEASUREMENTS OF FUEL AND BREEDER REACTIVITY WORTHS AT INNER AND OUTER CORE LOCATIONS AND ASSOCIATED REACTION - RATE MEASUREMENTS IN ZEBRA ASSEMBLY BZB / 3	BTN93	08/01/1979
G . INGRAM	THE EXPERIMENTAL PROGRAMME FOR BZD / 3	BTN94	10/01/1979
G . INGRAM	THE EXPERIMENTAL PROGRAMME FOR BZD / 3	BTN94-RE1	10/01/1979
A . D . KNIPE , G . INGRAM	ANALYSIS OF THE AM243 CAPTURE MEASUREMENT IN ZEBRA ASSEMBLY BZB / 3	BTN95	10/01/1979
B . L . H . BURBIDGE , MRS M . P . SWEET	PROVISIONAL RESULTS OF REACTION - RATE DISTRIBUTION IN ASSEMBLIES BZC / 1 , BZD / 1 AND BZD / 2	BTN96	11/01/1979
F . S . SWOBODA	ANALYSIS OF REACTION - RATE MEASUREMENTS IN BZA / 3	BTN97	11/01/1979
A . D . KNIPE , J . MARSHALL , J . M . STEVENSON	STUDIES OF INTERACTIONS AND FLUX TILTS PRODUCED BY A SINGLE ABSORBER AND ENRICHED ZONE IN BZD / 1A	BTN98	11/01/1979
F . S . SWOBODA , J . M . STEVENSON	FURTHER PROGRESS IN THE ANALYSIS OF BZA	BTN99	03/01/1980
?	PROPOSED EXTENSIONS TO THE BIZET PROGRAMME	BTN100	12/01/1979
B . M . FRANKLIN	A REVISED ANALYSIS OF THE SUBCRITICAL CONTROL ROD ARRAY WORTH MEASUREMENTS IN BZB / 3	BTN101	01/01/1980

B . L H BURBIDGE , P . A SMART	REACTION - RATE MEASUREMENTS WITH FOILS IN RAISED ABSORBERS IN ASSEMBLY BZB / 3	BTN102	02/01/1980
F . S . SWOBODA , J . M . STEVENSON	FIRST ANALYSIS RESULTS FOR ASSEMBLY BZC / 1	BTN103	02/01/1980
W . N . SIMMONS	THE EFFECT OF INTRODUCING ANISOTROPIC DIFFUSION COEFFICIENTS ON FLUXES AND REACTION - RATE DISTRIBUTIONS IN ASSEMBLY BZB / 2	BTN104	02/01/1980
J . M STEVENSON , F . S. SWOBODA , R . DE WOUTERS	THE INFLUENCE OF DIFFERENT METHODS OF CROSS - SECTION PREPARATION ON REACTIVITY , FLUX AND REACTION - RATE DISTRIBUTIONS , AND SODIUM VOID WORTHS IN DIFFUSION - THEORY CALCULATIONS FOR THE SALT - AND - PEPPER HETEROGENEOUS BIZET ASSEMBLY BZC/1	BTN105	03/01/1980
J . E . SANDERS	THE PIN - PLATE DISCREPANCY : FACT OR FICTION	BTN106	03/01/1980
J . M STEVENSON	FINAL COMPARISON OF FISSILE CELL HETEROGENEITY CALCULATIONS FOR BZA	BTN107	05/01/1980
J . M . STEVENSON	ENRICHMENT AND SMALL - ZONE SODIUM - VOID MEASUREMENTS IN ASSEMBLIES BZD / 3 AND BZD / 3A	BTN108	07/01/1980
B . M. FRANKLIN	FURTHER CALCULATIONS OF THE REACTIVITIES OF BZB / 2 CRITICAL ABSORBER ARRAYS INCLUDING COMPARISON WITH EXPERIMENTAL MULTICHAMBER AND FOIL SCAN RESULTS	BTN109	08/01/1980
W . N . SIMMONS	THE ANALYSIS OF CENTRAL SODIUM - VOID WORTHS IN BZB / 3 , IN THE PRESENCE OF DISTRIBUTED ABSORBING MATERIAL AND A SINGLE ELEMENT ABSORBER	BTN110	July-80
J . M . Stevenson , H . Giese , A . D . Knipe , J . Marshall	MEASUREMENTS OF INTERACTIONS AND FLUX TILTS PRODUCED BY SINGLE ABSORBERS AND AN ENRICHMENT ZONE IN BZD / 2 AND COMPARISON WITH SIMPLE CALCULATIONS	BTN111	08/01/1980
A . D . KNIPE	ACCESSING THE BIZET MULTI-CHAMBER SCANS	BTN112	08/01/1980
G . INGRAM , A . D . KNIPE	EXPERIMENTAL K - VALUES FOR VARIOUS LOADINGS OF BZD / 3	BTN113	09/01/1980
J . M STEVENSON	ENRICHMENT AND SMALL - ZONE SODIUM - VOID MEASUREMENTS IN ASSEMBLY BZD / 2	BTN114	10/01/1980
R . H . CURTIS	CALCULATED NEUTRON FLUX SPECTRA , REACTION - RATES AND ONE - GROUP CROSS - SECTIONS FOR THE EXTENDED IRRADIATION IN THE BZD / 3 CORE	BTN115	10/01/1980
J . M . STEVENSON	DIFFUSION-THEORY CALCULATIONS OF RELATIVE WORTHS OF CONTROL ROD ABSORBERS AND COMPARISON WITH EXPERIMENTAL RESULTS	BTN116	10/01/1980
W . H TAYLOR , M . F . MURPHY , M . R . MARCH	RESULTS OF ABSOLUTE NEUTRON REACTION RATE MEASUREMENTS IN FISSILE AND FERTILE REGIONS OF BZD / 2	BTN117	11/01/1980
W . H . TAYLOR , M . F . MURPHY , M . R . MARCH	RESULTS OF ABSOLUTE NEUTRON REACTION RATE DETERMINATIONS IN THE FISSILE AND FERTILE REGIONS OF BZD / 3 CORE IN ZEBRA	BTN118	12/01/1980
A . D KNIPE	MEASUREMENTS IN THE BIZET HETEROGENEOUS ASSEMBLIES TO EVALUATE CORRECTIONS FOR VARIATIONS OF TEMPERATURE AND PU241 DECAY	BTN119	05/01/1981
A . D . KNIPE	LARGE SCALE SODIUM VOID MEASUREMENTS IN BZC / 1	BTN120	05/01/1981
R . H . CURTIS	CALCULATIONAL ANALYSIS OF ASSEMBLY BZD / 3	BTN121	12/01/1980
B L H Burbidge M . F . Murphy , Miss P . A . Smart , W . H . Taylor	REACTION RATE RATIO MEASUREMENTS IN THE FISSILE REGION OF BZC / 1	BTN122	01/01/1981

W . N . SIMMONS , J . M . STEVENSON	CALCULATIONAL ANALYSIS OF ASSEMBLY BZD / 1	BTN123	02/01/1981
A . D . KNIPE	LARGE SCALE SODIUM VOID MEASUREMENTS IN BZD / 1	BTN124	06/01/1981
B . L . H . Burbidge , R . H . Curtis , Miss P . A . Smart , J . M . Stevenson	THE EXTENDED IRRADIATION IN ASSEMBLY BZD / 3 ; EXPERIMENTAL PLUTONIUM 239 FISSION RATES , FLUENCES AND CALCULATED SAMPLE REACTION RATES	BTN125	11/01/1982
J . M STEVENSON	TRANSPORT - THEORY CALCULATIONS OF THE WORTHS OF 40 % - ENRICHED AND NATURAL B , C CONTROL ROD ABSORBERS AND COMPARISON WITH DIFFUSION - THEORY AND EXPERIMENTAL RESULTS	BTN126	05/01/1981
M . R . March , J . M . Stevenson , M . F . Murphy , W . H . Taylor	COMPARISON OF MEASURED NEUTRON REACTION FATES IN FAST REACTOR STEELS AND COOLANT IMPURITIES WITH VALUES CALCULATED USING FD5 DATA	BTN127	05/01/1981
J . M . STEVENSON	TRANSPORT - THEORY CALCULATIONS OF REACTION - RATE DISTRIBUTIONS IN BZC / 1	BTN128	06/01/1981
B . L . H . Burbidge , M . F . Murphy , Miss P . A . Smart , J . M . Stevenson , R . H . Curtis	THRESHOLD REACTION - RATE DISTRIBUTIONS IN ASSEMBLY BZD / 3	BTN129	01/01/1982
B . M FRANKLIN , B . L . H . BURBIDGE , MISS P . A . SMART	MEASUREMENT AND ANALYSIS OF FOIL REACTION RATE DISTRIBUTIONS IN BZC / 1 AND A COMPARISON WITH DIFFUSION THEORY PREDICTIONS	BTN130	01/01/1982
B . L . H . BURBIDGE , B . M . FRANKLIN , MISS P . A . SMART , J . M STEVENSON	MEASUREMENTS AND CALCULATIONS OF REACTION - RATE RATIOS IN THE FISSILE REGION OF BZD / 1	BTN131	20-August-80
A . D KNIPE	REVISION OF ZEBRA MIXED - OXIDE PIN DATA	BTN132	11/01/1981
B . L . H . BURBIDGE , B . M . FRANKLIN , MISS P . A . SMART	MEASUREMENT AND ANALYSIS OF FOIL REACTION RATE DISTRIBUTIONS IN BZD / 3 AND COMPARISON WITH PREDICTIONS	BTN133	11/01/1982
A . D . KNIPE	REVISION OFZEBRA URANIUM DIOXIDE PIN DATA	BTN134	11/01/1981
G . INGRAM , J . M . STEVENSON	REACTIVITY WORTHS OF HYDROCARBONS IN BZB / 2	BTN135	12/01/1981
M . F . Murphy , J . M . Stevenson , W . H . Taylor	COMPARISON OF MEASURED NEUTRON REACTION RATES IN FAST REACTOR STEELS WITH VALUES CALCULATED USING FD5 DATA	BTN136	28-January-82
A . D . KNIPE	RADIAL COMPACTION MEASUREMENTS IN BZD / 3	BTN137	11/01/1982
J . M. STEVENSON	COMPARISON OF REACTIVITY SCALES - BASED ON KINETICS MEASUREMENTS AND PLUTONIUM FUEL WORTHS IN ELEVEN ZEBRA ASSEMBLIES	BTN138	11/01/1982
W . H . TAYLOR , M . F . MURPHY , M . R . MARCH	BETA AND GAMMA - RAY DECAY ENERGY FROM FRAGMENTS FROM THE FISSION OF U235 AND PU239 IN A FAST REACTOR	BTN139	11/01/1982
G . INGRAM , J . MARSHALL , J . M . STEVENSON	DESCRIPTION OF THE CRITICAL ABSORBER ARRAYS IN ASSEMBLY BZC / 2	BTN140	02/01/1984
J . M . STEVENSON	COMPARISON OF CALCULATED AND EXPERIMENTAL REACTION RATE DISTRIBUTIONS AND ASSOCIATED PARAMETERS IN THE BIZET ASSEMBLIES	BTN141	20-March-85
S . PILATE , F . SERVAIS	EVALUATION OF CONTROL ROD WORTHS MEASURED IN BZA (FIRST PART)	BTN-BN1	02/01/1977
F . SERVAIS , S . PILATE	EVALUATION OF CONTROL ROD WORTHS MEASURED IN BZA (SECOND PART)	BTN-BN2	24/05/1978

S . PILATE , G . EVRARD	COMPARISON OF K VALUES CALCULATED FOR THE BZA CORES	BTN-BN3	12/10/1979
M . HANCK	A CONTRIBUTION TO THE PARAMETRIC STUDIES OF SINGLE - ANNULAR CORES IN A SIMPLIFIED RZ - MODEL	BTN-BN4	31/01/1981
S . PILATE , H GABAIEFF	REVISED ANALYSIS OF BZA / 4 CONTROL ROD WORTHS MEASUREMENTS	BTN-BN5	18/12/1980
S . PILATE , H . GABAIEFF	ANALYSIS OF REACTION RATE MEASUREMENTS IN BZA / 3	BTN-BN6	22/09/1980
R . DE WOUTERS , R . BÖHME	PREPARATION OF HOMOGENEOUS AND HETEROGENEOUS CROSS - SECTIONS FOR BIZET / C	BTN-BN7	03/07/1980
P . L . KUNSCH	REDUCTION IN LOADING OF THE CENTRAL ISLAND	BTN-BN8	03/11/1980
E . DE WOUTERS	ANALYSIS OF THE GAMMA - RAY ENERGY DEPOSITION MEASUREMENTS IN BZC / 1 WITH SNR DESIGN METHODS	BTN-BN9	17-April-80
P . KUNSCH	CONTRIBUTION TO THE CALCULATION OF REACTIVITY CHANGES DUE TO PIN SUBSTITUTION IN BZD3 PLATE CORE	BTN-BN10	30-June-80
S . PILATE	RECALCULATION OF CONFIGUATION FACTORS FOR THE MODIFIED SOURCE MULTIPLICATION METHOD APPLIED ON BZA	BTN-BN11	22-May-80
S . PILATE	ANALYSIS OF CONTROL ROD EXPERIMENTS IN BZA SUMMARY OF THE RESULTS	BTN-BN12	17-June-80
S . PILATE	RELATIVE WORTHS OF CONTROL ROD ABSORBERS	BTN-BN13	06/01/1980
R . DE WOUTERS , S . PILATE	SUBCRITICAL CONTROL ROD WORTHS IN BZC / 1	BTN-BN14	12/01/1980
S . PILATE , J . EEMAN	CONTROL ROD WORTHS MEASUREMENTS IN BZC / 1 USING THE SOURCE MULTIPLICATION TECHNIQUE	BTN-BN15	10 -April-84
S . PILATE , J . EEMAN	POWER MAPPING IN CRITICAL ABSORBER ARRAYS OF BZB/2	BTN-BN16	28/04/1982
F . KAPPLER , S . PILATE	ADDITIONAL COMPARISONS UK / DEBENE ON RZ MODEL OF BZA	BTN-BN17	20/09/1982
S . PILATE , F . KAPPLER , R . BÖHME	EVALUATION OF RHODIUM FOIL SCANS IN BZB / 2	BTN-BN18	17/01/1984
S . PILATE , R . BÖHME , F . KAPPLER	BREEDING RATIO FROM FOIL MEASUREMENTS IN BZB / 2	BTN-BN19	21/12/1984
R . DE WOUTERS , H . DE GABAIEFF	ANALYSIS OF CRITICAL ARRAYS IN ASSEMBLY BZC / 2	BTN-BN20	12/06/1984
M . SCHWARZ , E . DE HAAN	NOTE OHNE KLASSIFIZIERUNG - GEOMETRICAL MODELS AND CALCULATIONAL METHODS DESIGNED FOR THE EVALUATION OF BZB	IA-Note	12/02/1980
M . SCHWARZ , E . DE HAAN	ANALYSIS OF THE LARGE NA - VOID EXPERIMENT IN BZB	BTN-IA1	03/07/1980
M . SCHWARZ , E . DE HAAN	ANALYSIS OF ABSORBER WORTH MEASUREMENTS IN BZB	BTN-IA2	25/11/1980
	COMPARISON OF REACTION RATES AND ONE - GROUP CROSS - SECTIONS CALCULATED AT INTERATOM WITH THOSE MEASURED AND CALCULATED BY UKAEA	BTN-IA3	17/11/1982
LÖHR	SUBCRITICAL MONITORING EVALUATION OF BZB/3, SECOND SERIES, AT INTERATOM	BTN-IA4	15/06/84
PRESCHER	MONTE CARLO CALCULATIONS OF SUBCRITICAL ABSORBER WORTH MEASUREMENTS IN THE SINGLE ANNULAR CORE BZD/2	BTN-IA6	30/03/84

F . KAPPLER	CRITICALITY CALCULATIONS WITH KARLSRUHE DATA AND METHODS FOR THE ASSEMBLY BZA/1	BTN-KFK2	19/12/1977
F . KAPPLER	NOTE ON THE CYLINDRICALISATION CORRECTION APPLIED IN THE KFK ANALYSIS OF BZA	BTN-KFK2 Addendum	May 1979
W . SCHOLTYSSEK , R . BÖHME , U . VON MOLLENDORFF	KFK REACTION RATE MEASUREMENTS IN THE BIZET CORE BZB	BTN-KFK3	07/01/1981
B. BURBIDGE	KFK REACTION RATE MEASUREMENTS IN THE BIZET CORE	BTN-KFK3 Notes	27/10/1978
F . KAPPLER	STUDIES ABOUT THE CELL HETEROGENEITIES IN BZA	BTN-KFK4	10/01/1978
F . KAPPLER	NEUTRON BALANCES FOR BZA CELLS	BTN-KFK4 Addendum	November 1978
R . BÖHME	ON THE CALCULATION OF AXIAL REACTION RATE DISTRIBUTIONS IN BZA / 3	BTN-KFK5	07/01/1979
R . BÖHME	ON THE CALCULATION OF AXIAL REACTION RATE DISTRIBUTIONS IN BZA/3	BTN-KFK5 Addendum	July 1981
E. A. FISCHER, F . KAPPLER	ON THE CALCULATION OF EFFECTIVE CROSS SECTIONS FOR CORE SINGULARITIES USING A MODIFIED VERSION OF KAPER	BTN-KFK6	March 1980
F. HELM	METHODICAL PROBLEMS IN THE EVALUATION OF BIZET-EXPERIMENTS	BTN-KFK7	June 1980
F . KAPPLER	CALCULATION OF SMALL-ZONE SODIUM VOID REACTIVITIES IN ASSEMBLIES BZA AND BZB	BTN-KFK8	October 1980
R . BÖHME , B . L . H . BURBIDGE	CENTRAL REACTION RATE RATIO MEASUREMENTS IN BZA / BZB	BTN-KFK9	May-82
H. GIESE	ANALYSIS OF SUBCRITICAL CONTROL ROD WORTH MEASUREMENTS IN ASSEMBLY BZB/3	BTN-KFK10	July 1981
F . KAPPLER	RECALCULATION OF SMALL-ZONE SODIUM-VOID REACTIVITIES IN ASSEMBLIES BZA AND BZB USING IMPROVED METHODS	BTN-KFK11	July 1982
F . KAPPLER	CALCULATIONS OF Keff AND THE SODIUM-VOID EFFECT FOR A SLAB REACTOR MODEL IN DIFFUSION AND TRANSPORT THEORY - INFLUENCE OF THE USE OF DIFFUSION WEIGHTING FUNCTIONS IN GROUP COLLAPSING	BTN-KFK12	August 1982
H . GIESE	SUBCRITICAL ABSORBER WORTH MEASUREMENTS IN THE HETEROGENEOUS SINGLE ANNULAR CORE BZD / 2	BTN-KFK13	11/01/1982
H . GIESE	SUBCRITICAL MONITORING STUDIES IN BZD / 2 USING ALTERNATIVE ABSORBER COMPOSITIONS AND A LOCALISED NEUTRON SOURCE	BTN-KFK14	09/01/1983
F . KAPPLER	ANALYSIS OF SMALL - ZONE SODIUM - VOID EXPERIMENTS IN ASSEMBLY BZD / 3	BTN-KFK15	12/01/1983
A . FABRY , H . TOURWE , N . MAENE , F . COPS , J . LACROIX	CELL - AVERAGE REACTION RATE MEASUREMENTS AT CORE CENTER OF ZEBRA ASSEMBLY BZB / 3	BTN-MOL-1	26/06/1981
J . E . SANDERS , J . M . STEVENSON	PRELIMINARY DESIGN OF A LARGE CORE OF ZEBRA	BTN-UK1	06/07/1975
	EXPERIMENTS PROPOSED FOR THE BIZET PROGRAMME	BTN-UK2	06/05/1975
W . C . BARRON , R . LESLIE , M . A . PERKS	A PRELIMINARY INVESTIGATION OF CORE DESIGNS WITH REDUCED SODIUM VOID REACTIVITY COEFFICIENTS	BTN-UK3	?

A . G . EDWARDS , P . B . KEMSHELL , K . M . LEIGH , J . LOCKETT , M . F . SMITH	PRELIMINARY REPORT OF A STUDY OF THE SAFETY POTENTIAL OF ' LOW VOID ' CORE DESIGNS	BTN-UK4	?
P . B . KEMSHELL , R . POTTER , M . F . SMITH	A CFR CONCEPT WITH IMPROVED SAFETY CHARACTERISTICS	BTN-UK5	?
P . B . KEMSHELL , D . NEWBON	SOME SCOPING STUDIES OF FAST REACTORS WITH IMPROVED SAFETY CHARACTERISTICS	BTN-UK6	?
G . INGRAM , J . M . STEVENSON	FURTHER CONSIDERATIONS OF THE FIRST BIZET CORE	BTN-UK7	04-November-75
J . E SANDERS	COMPONENTS FOR BIZET	BTN-UK8	15/01/1976
J . MARSHALL	DATA FOR CFR TYPE ABSORBERS USED IN ZEBRA	BTN-UK9	04/09/1974
J . M . STEVENSON	REVISIONS TO THE DESIGN OF THE FIRST BIZET ASSEMBLY	BTN-UK10	31/12/1975
J . M . STEVENSON , S . F . SWOBODA	PROGRESS ON CALCULATIONS FOR THE CONVENTIONAL BIZET ASSEMBLIES	BTN-UK11	17/06/1976
G . INGRAM	PROPOSALS FOR SIMULATED VAPOUR - EXPLOSION EXPERIMENTS IN BIZET	BTN-UK12	21/06/1976
J . E . SANDERS	STUDY OF ALTERNATIVE FAST REACTOR CORES IN THE BIZET PROGRAMME	BTN-UK13	22/06/1976
D . W . SWEET	PROPOSED ARRANGEMENT OF MULTICHAMBER SCANNING SYSTEM FOR THE BIZET PROGRAMME	BTN-UK14	24/06/1976
J . M . STEVENSON	DESIGN OF ZEBRA CONTROL RODS FOR BZA AND BZB	BTN-UK15	09/08/1976
W . H . TAYLOR , D . W . SWEET , M . F . MURPHY , W . R . COX , M . R . MARCH	INTEGRAL TESTS OF FD5 CROSS - SECTIONS RELEVANT TO PRIMARY CIRCUIT ACTIVATION	DIDWG (75)-P90	28/11/1975
	A LIST OF BIZET TECHNICAL NOTES ISSUED FROM JUNE 1975 TO NOVEMBER 1979	BTN-100	Not dated

3. Technical Notes Describing the MOZART Programme.

Authors	Title	Identifier	Date
J . M . STEVENSON , S . F . SWOBODA	REVISED PROPOSAL FOR MOZART ASSEMBLIES	MTN1	20/08/1971
J . E . SANDERS	OUTLINE PROGRAMME OF CONTROL ROD MEASUREMENTS IN MZC	MTN2	19/08/1971
J . L . BUTLER	PROPOSALS FOR THE KOCHEL PROGRAMME OF ENERGY - DEPOSITION AND PENETRATION MEASUREMENTS ON THE ZEBRA - MOZART CORES	MTN3	31/08/1971
C . MCCOMBIE	CALCULATIONS IN SUPPORT OF SPECTRUM MEASUREMENTS MZA	MTN4	16/11/1971
J . M . STEVENSON , S . F . SWOBODA	DESCRIPTION OF SUBCRITICAL AND STANDARD CRITICAL LOADINGS OF ZEBRA 11 (MZA)	MTN5	31-December-71
J . MARSHALL , J . M . STEVENSON , S . F . SWOBODA	CONTROL ROD CALIBRATIONS IN ZEBRA 11 (MZA)	MTN6	03-January-72
T . KONISHI , J . MARSHALL	ZEBRA CORE 11 (MZA) number densities (COMPUTER PRINT - OUT) VOLUME 1 , 2 AND3	MTN7	20-January-71
J . M STEVENSON , S . F SWOBODA	FURTHER INFORMATION ON THE EXPERIMENTAL REACTIVITY OF THE 213 CORE ELEMENT LOADING OF ZEBRA 11 5MZA)	MTN8	21-March-72
J . M STEVENSON , S . F SWOBODA	FURTHER INFORMATION ON THE EXPERIMENTAL REACTIVITY OF THE 213 CORE ELEMENT LOADING OF ZEBRA 11 (MZA)	MTN8-AD	21-March-72
J. M. STEVENSON, S. F. SWOBODA	REACTIVITY ZEASUREMENTS WITH PLATE SAMPLES IN ZEBRA 11 (MZA)	MTN9	4-February-72
M . D . CARTER , J . SAMWAYS	SPECTRUM MEASUREMENTS WITH PROTON RECOIL COUNTERS IN ZEBRA 11 (MZA)	MTN10	02/02/1972
J . P. HARDIMAN , B . FRANKLIN	RE - EVALUATION OF TIME - OF - FLIGHT SPECTRA IN ZEBRA CORE 11 (MZA)	MTN11	03/01/1973
J . M . STEVENSON	EXPERIMENT B10 (3)	MTN12	11/01/1972
J . M . STEVENSON , S . F . SWOBODA	SODIUM REMOVAL REACTIVITY MEASUREMENTS IN ZEBRA 11 (MZA)	MTN13	03/07/1972
B . L . M . BURBIDGE , G. Ingram , D . Jowitt , Miss M . P . Smith , Miss P . A . Smart , D . Sweet	CENTRAL REACTION RATE RATIO MEASUREMENTS IN ZEBRA CORE 11	MTN14	03/03/1972
H . YOSHIBA	ANALYSES OF CENTRAL PERTURBATION MEASUREMENTS IN ZEBRA 10	MTN15	05/01/1972
J . M . STEVENSON , S . F . SWOBODA	THE FINAL DESIGN OF MZB	MTN16	04/10/1972
A . SUGAWARA	AN ESTIMATE OF THE XZC REACTIVITY REQUIREMENTS AND THE NUMBER OF OUTER CORE ELEMENTS TO BE ADDED TO MZB	MTN17	06/01/1972
J . M . STEVENSON , S . F . SWOBODA	DESCRIPTION OF THE STANDARD LOADING OF ZEBRA ASSEMBLY 12 (1) - THE FIRST VERSION OF MZB	MTN18	15/05/1972

H . YOSHIBA	ANALYSIS OF SODIUM RENOVAL REACTIVITY MEASUREMENTS IN ZEBRA 11 (MZA)	MTN19	06/01/1972
H . YOSHIBA	ANALYSIS OF CENTRAL PERTURBATION MEASUREMENTS IN ZEBRA 11 (MZA)	MTN20	06/01/1972
A . K . MCCRACKEN , A . PACKWOOD	DETAILS OF THE IRRADIATIONS IN THE KOCHEL PROGRAMME ON THE MZ - B CORE	MTN21	05/01/1972
A . K . MCCRACKEN	MTN21 AMENDMENT 1	MTN21-AM1	06/01/1972
A . K . MCCRACKEN	MTN21 AMENDMENT 2	MTN21-AM2	08/01/1972
M . D . CARTER , J . SAMWAYS	ENERGY UNCERTAINTIES NEAR 30 KEV IN PROTON RECOIL COUNTER SPECTRUM MEASUREMENTS IN ZEBRA 11 (MZA)	MTN22	26/05/1972
J . MARSHALL , J . M . STEVENSON , S . F . SWOBODA	CONTROL ROD CALIBRATIONS IN ZEBRA 12 (1) - THE FIRST VERSION OF MZB	MTN23	06/06/1972
B . L . H . BURBIDGE , G . INGRAM , D . W . SWEET , W . H . TAYLOR	REACTION RATE SCANS USING FOILS IN ZEBRA CORE 11	MTN24	19/06/1972
J . M . STEVENSON , S . SWOBODA	THE EXPERIMENTAL REACTIVITY OF THE STANDARD LOADING OF ZEBRA 12 / 1 - THE FIRDT VERSION OF MZB	MTN25	23/06/1972
J . M . STEVENSON , S . F . SWOBODA	ADDITIONAL PERTURBATION MEASUREMENTS IN MZB (1)	MTN26	08/01/1972
G . INGRAM	SIMULATED VAPOUR EXPLOSION AND MELT DOWN MEASUREMENTS IN ZEBRA CORE 12 (MZB2)	MTN27	?
B . L . H . BURBIDGE , G . INGRAM , D . JOWITT , MISS M . P . SMITH , MISS P . A . SMART , D . W . SWEET	RESULTS OF FURTHER CENTRAL REACTION RATE RATIO MEASUREMENTS IN ZEBRA CORE 11	MTN28	?
D . JOWITT , MISS P . A . SMART	REACTION RATE SCANS USING FISSION CHAMBERS IN ZEBRA CORE 11	MTN29	?
B . L . H . BURBIDGE , G . IINGRAM , D . JOWITT , MISS M . P . SMITH , MISS P . A . SMART , D . W . SWEET	CENTRAL REACTION RATE RATIO MEASUREMENTS IN ZEBRA CORE 12 (MZB / 1)	MTN30	08/01/1972
J . M . STEVENSON , S . F. SWOBODA	ZEBRA ASSEMBLY 12 / 2 - THE SECOND VERSION OF MZB DESCRIPTION OF STANDARD LOADING CONTROL ROD CALIBRATIONS EXPERIMENTAL REACTIVITY	MTN31	08/01/1972
M . NAKANO	ZEBRA CORE 12 (MZB) NUMBER DENSITIES	MTN32	24/08/2001
D . JOWITT , B . FRANKLIN , MISS P . A . SMART , G . INGRAM	REACTION RATE SCANS USING FISSION CHAMBERS IN THE NATURAL URANIUM OXIDE AND DEPLETED URANIUM OXIDE SECTOR VERSIONS OF MZB	MTN33	?
J . E . SANDERS	A REVISED PROGRAMME OF CONTROL ROD MEASUREMENTS IN MZC	MTN34	10/10/1972
A . SUGAWARA	APPLICATION OF THE TWOTRAN (XY) CODE TO FAST REACTOR ANALYSIS	MTN35	27/09/1972
J . M . STEVENSON , S . F . SWOBODA	REACTIVITY WORTHS OF SPECIAL ASSEMBLIES IN VARIOUS RADIAL POSITIONS IN ZEBRA CORE 12 (MZB)	MTN36	19/10/1972

M . NAKANO , R . W . SMTH	MURAL / FGL4 CELL CALCULATIONS FOR MZB (ZEBRA CORE 12)	MTN37	29/11/1972
M . NAKANO	A NOTE ON THE CALCULATION OF REACTION RATE DISTRIBUTIONS IN MZA	MTN38	16/10/1972
C . G . CAMPBELL , S . KOBAYASHI	DATA ON PNC 90 % B4C AND TA ABSORBERS	MTN39	02/01/1973
I . C .RICKARD	LITHIUM - 6 SPECTROMETER MEASUREMENTS IN ZEBRA CORE 11 (MZA)	MTN40	10/04/1972
W . J . PATERSON , J . REDFEARN	DOUBLE SCINTILLATOR SPECTROMETRY ON ZEBRA CORE 11 / MZA	MTN41	09/01/1972
J . M . STEVENSON , S . F . SWOBODA	THIRD VERSION OF MZB DESCRIPTION OF STANDARD LOADING CONTROL ROD CALIBRATIONS - EXPERIMENTAL REACTIVITY COMPARISONS WITH ASSEMBLIES 12 / 1 AND 12 / 2	MTN 42	11/01/1972
J . M . STEVENSON , M . NAKANO , H . YOSHIDA , J . HARDIMAN	PROPOSALS FOR THE STANDARD REACTOR MODELS AND THE ANALYTICAL METHODS FOR COMPARISON OF CALCULATIONS AND EXPERIMENTS IN MZB	MTN43	November-72
B . M . FRANKLIN , J . P . HARDIMAN	THE BUCKLING OF ZEBRA CORE 11 (MZA)	MTN44	
T . KONISHI	DIFFUSION THEORY CALCULATIONS OF THE REACTIVITY REACTION RATE RATIOS AND REACTION RATE DISTRIBUTIONS IN MZA	MTN45	27 November 1972
J . BUTLER	THEORETICAL INTERPRETATION OF THE KOCHEL EXPERIMENTS ON MZ - B	MTN46	Februaryl-73
A . M . BROOMFIELD , G . INGRAM	THE EXPERIMENTAL PROGRAMME FOR MZC	MTN47	15-January-73
R . W . SMITH	MURAL / FGL5 CELL CALCULATIONS FOR MZB (ZEBRA CORE 12)	MTN48	04-January-72
J . MARSHALL , J . M . STEVENSON , S . F . SWOBODA	ZEBRA ASSEMBLY 12 / 4 DESCRIPTION OF STANDARD LOADING CONTROL ROD CALIBRATIONS EXPERIMENTAL REACTIVITY COMPARISON WITH ASSEMBLY 12 / 3	MTN49	December-72
M . D . CARTER , J . SAMWAYS	NEUTRON SPECTRUM MEASUREMENTS WITH PROTON - RECOIL COUNTERS IN A BEAM FROM ZEBRA 11 (MZA)	MTN50	December-72
J . MARSHALL	ATOMIC NUMBER DENSITIES FOR CALCULATIONS ON PNC ABSORBERS USED IN MZC	MTN51	January-73
J . M . STEVENSON	THE REACTIVITY SCALE EXPERIMENT IN ASSEMBLY MZB (4)	MTN52	January-73
A . SUGAWARA	STUDIES OF THE STANDARD METHODS FOR THE MZC CONTROL ROD WORTH ANALYSIS	MTN53	05-February-73
J . M . STEVENSON , S . F . SWOBODA	SODIUM REMOVAL MEASUREMENTS IN PLATE AND PIN GEOMETRY IN ZEBRA ASSEMBLY 12 (2) THE SECOND VERSION OF MZB	MTN 54	February-73
P . J . COLLINS , J . D . MAC DOUGALL	CONTROL ROD FINE STRUCTURE STUDIES IN MZC	MTN55	09-February-73
M . NAKANO	A FURTHER STUDY OF THE MATERIAL BUCKLING OF ZEBRA CORE 11 (MZA)	MTN56	February-73
J . D . MACDOUGALL	REACTION RATE SCANS USING FOILS IN THE NATURAL URANIUM OXIDE AND DEPLETED URANIUM OXIDE SECTOR VERSIONS OF MZD	MTN57 ADD	08-June-73

J . D . MACDOUGALL	REACTION RATE SCANS USING FOILS IN THE NATURAL URANIUM OXIDE AND DEPLETED URANIUM OXIDE SECTOR VERSIONS OF MZD	MTN57ADD	08-June-73
P . J . COLLINS , J . MARSHALL , A . SUGAWARA	THE STANDARD METHOD FOR THE ANALYSIS OF MZC	MTN58	February-73
M . D . Carter , A . D . Knipe , A . K . McCracken , A . Packwood , I . C . Rickard	THE KOCHEL EXPERIMENTS ON MZB Part I: MEASUREMENTS WITH ACTIVATION DETECTORS , HYDROGEN - FILLED PROPORTIONAL COUNTERS, 6LI SANDWICH SPECTROMETER , GAMMA-RAY , IONISATION CHAMBERS AND THERMOLUMINESCENT DETECTORS	MTN59	June 1973
J . M . STEVENSON , S . F . SWOBODA	CALCULATIONS OF THE REACTIVITY AND CENTRAL , REACTION RATE RATIOS FOR MZB WITH FGL5 DATA , AND COMPARISON WITH EXPERIMENTAL RESULTS	MTN60	01-March-73
A . SUGAWARA , A . N . BROOMFIELD	SUMMARY OF CALCULATIONS MADE IN SUPPORT OF THE DESIGN OF THE MZC EXPERIMENT	MTN61	05-March-73
J . H SPANTON	A STUDY OF THE EFFECT OF TRANSIENTS IN THE SPECTRUM ON THE GROUP CONSTANTS AND REACTION RATES CALCULATED IN MZA	MTN62	07-March-73
T . KONISHI	INVESTIGATIONS OF SOME OF THE APPROXIMATIONS MADE IN THE STANDARD DIFFUSION THEORY ANALYSIS OF MZA REACTIVITY AND REACTION RATE SCANS	MTN63	12-March-73
H . YOSHIDA	ANALYSIS OF CENTRAL PERTURBATION MEASUREMENTS IN ZEBRA 11 (MZA) AND ZEBRA 12 (MZB)	MTN64	April-73
H . YOSHIDA	ANALYSIS OF SODIUM REMOVAL XPERIMENT IN ZEBRA 11 (MZA) (2) USING THE FGL - 5 CROSS - SECTION DATA SET	MTN 65	20-March-73
C . J . DEAN	ONE - GROUP CAPTURE AND FISSION CROSS - SECTIONS FOR MZA	MTN66	21-March-73
G . INGRAM , D . W . SWEET	VAPOUR EXPLOSION AND FUEL MELT - DOWN SIMULATIONS IN ZEBRA CORE 12 (MZB / 2)	MTN67	March-73
R . W . SMITH	CALCULATION OF THE REACTIVITY AND CENTRAL REACTION RATE RATIOS FOR MZA USING THE FGL5 LIBRARY OF CROSS SECTIONS , AND THEIR COMPARISON WITH THE MEASURED VALUES	MTN 68	April-73
R . W . SMTH	CALCULATED PERTURBATION CROSS SECTIONS AND REACTIVITY WORTHS OF THE CONSTITUENT ISOTOPES AT THE CORE CENTRES OF MZA AND MZB USING THE FGL5 DATA SET	MTN 69	August-73
M . NAKANO	CALCULATIONS OF THE REACTION RATE DISTRIBUTIONS IN MZB WITH FGL5 DATA , AND COMPARISON WITH EXPERIMENTAL RESULTS	MTN70	March-73
R . W . SMITH	A comparison of FGL5 - transport theory calculations of reaction rate distributions in MZA with experiment	MTN71	03-October-73
J . H . SPANTON	PRELIMINARY RESULTS OF A STUDY OF THE EFFECT OF HETEROGENEITY ON FISSION RATE SCANS IN MZA BLANKET CELLS	MTN72	April-73
J . P . HARDIMAN	ANALYSIS OF SODIUM REMOVAL EXPERIMENTS IN MZB (2) PART 1	MTN73	April-73
M . D . CARTER AND J . SAMWAYS	A Comparison of the High Energy Neutron Spectrum Measurements made with Double Scintillator , Proton Recoil Counter and Lithium - 6 Spectrometers in Zebra 11 (MZA)	MTN74	May-73
B . L . H . BURBIDGE , G . INGRAM , MISS M . P . SMITH	REACTION RATE SCANS USING FOILS IN ZEBRA CORE 12 / 3	MTN75	April-73

J . M . STEVENSON , S . F . SWOBODA	ANALYSIS OF THE REACTIVITY SCALE EXPERIMENT IN MZB USING FGL5 DATA AND THEORY	MTN76	June-73
J . M . STEVENSON	A NOTE ON THE MEASUREMENT OF THE INTERACTION OF SODIUM VOIDING AND ROD WORTHS IN MZC	MTN77	June-73
M . D . CARTER , J . SAMWAYS	NEUTRON SPECTOUM MEASUREMENTS WITH PROTON RECOIL COUNTERS IN THE BLANKET AND REFLECTOR OF ZEBRA CORE 12 (MZB2)	MTN78	June-73
J . MARSHALL	THE DATA AND MODEL FOR THE PNC MIXED 80 PER CENT AND 90 PER CENT B4C ABSORBER	MTN79	June-73
D . JOWITT , MISS P . SMART , G . INGRAM	REACTION RATE SCANS IN MZB / 3 USING FISSION CHAMBERS	MTN80	June-73
J . L ROWLANDS , C . J . DEAN , M . F . JAMES , J . D . MACDOUGALL , R . W . SMITH	THE FGL5 AND FD5 CROSS - SECTION SET	MTN81	October-73
M . J GRIMSTONE	THE APPLICATION OF THE STANDARD BUILD-UP FACTOR AND REMOVAL-DIFFUSION METHODS TO THE KOCHEL GAMMA RAY EXPERIMENTS IN MZ-B	MTN82	June-73
M . J GRIMSTONE , P . C . MILLER , Y . SEKIGUCHI	THE APPLICATION OF THE STANDARD 1 - D REMOVAL - DIFFUSION (COMPRACH) METHOD TO THE KOCHEL NEUTRON EXPERIMENTS ON MZ - B	MTN83	July-73
M . J GRIMSTONE , A . D KNIPE	MONTE CARLO ANALYSIS OF THE KOCHEL GAMMA - RAY EXPERIMENTS IN MZ - B : THE RADIAL CALCULATIONS	MTN84	August-73
A . SUGAWARA	ANALYSIS OF THE MZC CONTROL ROD EXPERIMENTS USING TRANSPORT THEORY METHODS	MTN85	26-June-73
J . MARSHALL , J . SAMWAYS	CALCULATED REACTIVITIES FOR MZC CONFIGURATIONS USING THE STANDARD METHOD	MTN86	July-73
D . W . SWEET	FURTHER DATA ON CENTRAL REACTION RATE MEASUREMENTS IN MZA AND MZB	MTN87	July-73
P . C . MILLER	THE APPLICATION OF THE STANDARD 2 - D REMOVAL - DIFFUSION (COMPRASH) METHOD TO THE KOCHEL NEUTRON EXPEIMENTS ON MZ - B	MTN88	July-73
D . JOWITT , MISS P . A . SMART , G . INGRAM , B . L . H . BURBIDGE	REACTION RATE SCANS IN MZC USING FISSION CHAMBERS	MTN89	July-73
A . D . KNIPE	CORRECTIONS TO GAMMA DOSE - RATE MEASUREMENTS MADE IN THE KOCHEL EXPERIMENTS IN CORE MZ - B / PART I : IONISATION CHAMBER MEASUREMENTS	MTN90	August-73
M . J . GRIMSTONE , A . D . KNIPE	MONTE CARLO ANALYSIS OF THE KOCHEL GAMMA - RAY EXPERIMENTS IN MZ - B : AXIAL CALCULATIONS	MTN91	September-73
A . M . BROOMFIELD , M . D . CARTER	THE MZC CONTROL ROD WORTH EXPERIMENTS AND THEIR ANALYSIS USING THE STANDARD , CALCULATION METHOD	MTN92	September-73
J . MARSHALL , J . SAMWAYS	A COMPARISON BETWEEN MEASURED AND CALCULATED REACTION RATE DISTRIBUTIONS IN MZC	MTN93	October-73
G . INGRAM , D . JOWITT , P . A . SMART , B . L . H . BURBIDGE , M . SMITH	REANALYSIS OF MEASURED U238 FISSION RATE SCANS IN MZA , MZB / 1 AND MZB / 2	MTN94	September-73
P . C . MILLER	TRANSPORT ANALYSIS OF NEUTRON PENETRATIONS IN THE MZ - B (2) RADIAL SHIELD	MTN95	September-73

J . M . STEVENSON , S . F . SWOBODA	A SUMMARY OF CALCULATIONS OF THE CENTRAL AND DISTRIBUTED PERTURBATIONS IN ASSEMBLIES MZA AND MZB	MTN96	October-73
B . L . H . BURBIDGE , G . INGRAM , MISS M . P . SMITH	REACTION RATE SCANS USING FOILS IN PNC CONTROL ROD VERSION OF ZEBRA CORE 12 / 4	MTN97	October-73
P . J . COLLINS	FINE STRUCTURE STUDIES OF THE PNC MOCKED - UP CONTROL RODS USING THE PIJ CODE	MTN98	October-73
R . W . SMITH	A REASSESSMENT OF THE COMPARISON BETWEEN MEASURED AND CALCULATED REACTION RATE DISTRIBUTIONS IN MZA	MTN99	?
P . J . COLLINS	ANALYSIS OF AXIAL FISSION CHAMBER SCANS NEAR CONTROL RODS IN MZC	MTN100	10/01/1973
J . M . STEVENSON , S . F . SWOBODA	FURTHER CALCULATIONS OF REACTION RATE DISTRIBUTION IN MZB WITH FGL5 DATA AND COMPARISON WITH EXPERIMENTAL RESULTS	MTN101	10/01/1973
A. F. AVERY, A. D. KNIPE	CALCULATIONS OF GAMA-RAY DOSE RATES IN THE CONTROL ROD EXPERIMENTS OF MZC	MTN102	August 1975
J . P . HARDIMAN	ANALYSIS OF SODIUM REMOVAL EXPERIMENTS IN MZB (2) PART 2	MTN103	?
R . W . SMITH	THE REACTIVITY CALIBRATION OF SPECIFIED CONTROL RODS IN MZA AND MZB (VERSIONS 1 , 2 , 3 AND 4) ON AN ABSOLUTE SCALE BASED ON MEASURED PERIODS AND THE INHOUR EQUATION.	MTN104	11/01/1973
J . D . MACDOUGALL	CORRECTIONS TO THE STANDARD METHOD OF CALCULATING REACTION RATE SCANS IN ZEBRA WITH RESULTS FOR MZB	MTN105	12/01/1973

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B . L .H . BURBIDGE , J . P . HARDIMAN , D . JAKEMAN , J . MARSHALL	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8 / 16 RESULTS OF TIME - OF - FLIGHT SPECTRUM EXPERIMENTS IN ZEBRA 8 CORES	ZERS8-16	09-April-69
A . M . BROOMFIELD , D . JAKEMAN , J . MARSHALL	ESTIMATED ERRORS IN COARSE GROUP SPECTRA FROM TIME - OF - FLIGHT AND PROPORTIONAL COUNTER MEASUREMENTS IN ZEBRA 8 CORES	ZERS8-16-17-AD1	24-April-69
A . M . BROOMFIELD , M . D . CARTER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8 / 17 RESULTS OF PROPORTIONAL COUNTER EXPERIMENTS IN ZEBRA 8 CORES	ZERS8-17	10-April-69
B . M . FRANKLIN	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8 / 24 A LISTING OF TIME - OF - FLIGHT RUNS IN ZEBRA SERIES 8 CORES	ZERS8-24	24-February-70
C . F . GEORGE , G . INGRAM , D . WARDLEWORTH	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8 / 25 SUMMARY OF INTEGRAL RESULTS FROM ZEBRA CORE 8	ZERS8-25	10-April-70
G . INGRAM , D . FURNEAUX , J . SHOULER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8A/28 CONTROL ROD CALIBRATIONS AND REACTIVITY MEASUREMENTS IN ZEBRA CORE 8A	ZERS8A-28	09-July-70
D . FURNEAUX , G . INGRAM , J . SHOULER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8B/1 CONTROL ROD CALIBRATIONS AND PERTURBATION MEASUREMENTS CORE 8B	ZERS8B-1	20-March-68
J . M . STEVENSON , D . JOWITT	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8B/2 ACTIVATION AND FISSION CHAMBER RESULTS IN ASSEMBLIES 8A AND 8B	ZERS8B-2	29-March-68
D . FURNEAUX	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8B/3 CORE 8A AND CORE 8B DESCRIPTION	ZERS8B-3	10-July-70
C . F . GEORGE , D . JOWITT , J . M . STEVENSON	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8B/4 REACTION RATE MEASUREMENTS IN THE PULSED SUB - CRITICAL ASSEMBLY 8B	ZERS8B-4	29-May-68
I . H . GIBSON , J . P . HARDIMAN , J . MARSHALL , B . L . BURBIDGE , A . M . BROOMFIELD , M . D . CARTER , M . SILK , D . WARDLEWORTH , J . D . MACDOUGALL , D . JAKEMAN	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8B/5 NEUTRON ENERGY SPECTRUM MEASUREMENTS IN ZEBRA CORE 8B	ZERS8B-5	03-July-68
J . M . STEVENSON , D . JOWITT	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8B/6 B10 CAPTURE TO PU239 AND U235 FISSION RATIOS IN 8A AND 8B	ZERS8B-6	22-July-68
D . JOWITT , M . G . SILK , J . M . STEVENSON	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8B/7 COMPARISON OF LI6 SPECTROMETER RESULTS IN ZEBRA 8	ZERS8B-7	August-68
C . F . GEORGE , D . JOWITT , P . J . WEBBER	CALIBRATION OF ZEBRA FISSION FOILS	ZERS8B-8	?
C . F . GEORGE , D . JOWITT , J . M . STEVENSON , P . J . WEBBER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8B-9 FOIL AND CHAMBER MEASUREMENTS IN ZEBRA 8A AND 8B	ZERS8B-9	27-August-68
D . FURNEAUX , G . INGRAM , J . SHOULER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8C/12 CONTROL ROD CALIBRATIONS AND REACTIVITY MEASUREMENTS CORE 8C	ZERS8C-12	20-December-68
R . CHAWLA , C . F . GEORGE , D . JOWITT , P . J . WEBBER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8C/13 REACTION RATE MEASUREMENTS IN ZEBRA 8C	ZERS8C-13	20-February-69
D . JOWITT	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8C/14 SOLID STATE TRACK RECORDER TECHNIQUE IN ZEBRA	ZERS8C-14	28-February-69

MISS M . P . SMITH , P . J . WEBBER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8C/15 INTERCALIBRATION OF ZEBRA FISSION FOILS	ZERS8C-15	03-March-69
C . F . GEORGE , D . JOWITT , MISS M . P . SMITH , P . J . WEBBER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8D/18 REACTION RATE MEASUREMENTS IN ZEBRA 8D	ZERS8D-18	17-July-69
G. INGRAM, MISS M. P. SMITH, B. L. H. BURBIDGE	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8D/19 CONTROL ROD CALIBRATION AND REACTIVITY MEASUREMENTS IN CORE 8D	ZERS8D-19	22-July-69
A . M . BROOMFIELD , M . D . CARTER , B . FRANKLIN , J . P . HARDIMAN , D . JAKEMAN , I . RICKARD , J . SAMWAYS	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8D/20 RESULTS OF PROTON RECOIL COUNTER AND TIME - OF - FLIGHT SPECTRUM MEASUREMENTS IN ZEBRA 8D	ZERS8D-20	28-August-69
R . JORDAN , B . L . H . BURBIDGE , G . INGRAM	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8D/23 INVESTIGATION OF HYDROGEN CONTENT OF ZEBRA GRAPHITE PLATES	ZERS8D-23	08-January-70
C . F . GEORGE , D . JOWITT , MISS M . P . SMITH , P . J . WEBBER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8E/21 RECTION RATE MEASUREMENTS IN ZEBRA 8E	ZERS8E-21	21-November-69
P . J . WEBBER	AMENDMENTS TO REACTION RATE MEASUREMENTS IN ZEBRA 8E	ZERS8E-21AM1	08-January-70
G . INGRAM , MISS M . P . SMITH , B . L . H . BURBIDGE	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8E/22 CONTROL ROD CALIBRATIONS AND REACTIVITY MEASUREMENTS IN ZEBRA CORE 8E	ZERS8E-22	03-December-69
G . INGRAM , MISS M . P . SMITH AND B . L . H . BURBIDGE	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8F/26 CONTROL ROD CALIBRATIONS AND REACTIVITY MEASUREMENTS IN ZEBRA CORE 8F	ZERS8F-26	20-April-70
C . F . GEORGE , D . JOWITT , MISS M . P . SMITH , P . J . WEBBER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8F/27 REACTION RATE MEASUREMENTS IN ZEBRA 8F	ZERS8F-27	22-May-70
G . INGRAM , MISS M . P . SMITH , B . L . H . BURBIDGE	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8F/29 CONTROL ROD CALIBRATION AND REACTIVITY MEASUREMENTS IN CORE 8F/2	ZERS8F-29	13-July-70
G . INGRAM , MISS M . P . SMITH , B . L . H . BURBIDGE	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8G/31 CONTROL ROD CALIBRATIONS IN ZEBRA CORE 8G	ZERS8G-31	10-March-71
C . F . GEORGE , MISS M . P . SMITH , P . J . WEBBER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8G/32 REACTION RATE MEASUREMENTS IN ZEBRA 8G	ZERS8G-32	29-March-71
C . F . GEORGE , MISS M . P . SMITH , P . J . WEBBER	ZEBRA EXPERIMENTAL RESULTS SHEET NO 8G/33 REACTION RATE MEASUREMENTS IN AN URANIUM ZONE (in pin and plate geometry) IN ZEBRA CORE 8G	ZERS8G-33	27-April-71
C . F . GEORGE	COMPOSITION OF THE ZEBRA CORE 8G CALANDRIA EXPERIMENT	ZERS8G-35	10-June-71
B . L . H . BURBIDGE , D . JOWITT , MISS M . P . SMITH , P . J . WEBBER	REACTION RATE MEASUREMENTS IN ZEBRA 8H	ZERS8H-30	08-January-71
G . INGRAM , MISS M . P . SMITH , B . L . H . BURBIDGE	CONTROL ROD CALIBRATION AND REACTIVITY MEASUREMENTS IN CORE 8H	ZERS8H-34	13-May-71
J . MARSHALL	DESCRIPTION OF CORE 9	ZERS9-1	27-October-70
B . M . FRANKLIN , J . P . HARDIMAN	BUCKLING MEASUREMENTS IN ZEBRA CORE 9	ZERS9-2	28-April-71
G . INGRAM , A . M . BROOMFIELD , MISS M . P . SMITH , B . L . H . BURBIDGE	CONTROL ROD CALIBRATIONS IN ZEBRA CORE 9	ZERS9-3	24-May-71

A . M . BROOMFIELD , M . D . CARTER , J . MARSHALL	THE EXPERIMENTAL AND CALCULATED REACTIVITY OF CORE 9	ZERS9-4	26-May-71
J . MARSHALL	CORRECTION TO ZERS 9/4	ZERS9-4AD1	07-March-72
B . L . H . BURBIDGE , G . INGRAM , D . JOWITT , MISS M . P . SMITH , D . W . SWEET	REACTION RATE MEASUREMENTS IN ZEBRA CORE 9	ZERS9-5	19-June-72
J . MARSHALL	ZEBRA EXPERIMENTAL RESULTS SHETT NO 10 / 1 DESCRIPTION OF CORE 10	ZERS10-1	04-May-71
J . M . STEVENSON S . F . SWOBODA	ZEBRA EXPERIMENTAL RESULTS SHEET NO 10 / 2 SMALL SAMPLE PERTURBATION WORTHS IN CORE 10	ZERS10-2	04-June-71
G . INGRAM , A . M . BROOMFIELD , MISS M . P . SMITH , B . L . H . BURBIDGE	ZEBRA EXPERIMENTAL RESULTS SHEET NO 10 / 3 CONTROL ROD CALIBRATIONS IN ZEBRA CORE 10	ZERS10-3	10-June-71
B . L . H . BURBIDGE , G . INGRAM , D . JOWITT , MISS M . P . SMITH , D . SWEET	ZEBRA EXPERIMENTAL RESULTS SHEET NO 10 / 4 FISSION RATIO COMPARISONS WITH CADARACHE IN CORE 10	ZERS10-4	15-June-71
A . M . BROOMFIELD , M . D . CARTER , J . MARSHALL	ZEBRA EXPERIMENTAL RESULTS SHEET NO 10 / 5 THE EXPERIMENTAL AND CALCULATED REACTIVITY OF CORE 10	ZERS10-5	08-July-71
J . MARSHALL	CORRECTION TO ZERS 10/5	ZERS10-5-AD	06-March-72
B . L . H . BURBIDGE	ZEBRA EXPERIMENTAL RESULTS SHEET NO 10 / 6 URANIUM 238 CAPTURE TO URANIUM 235 FISSION COMPARISON WITH CADARACHE IN ZEBRA CORE10	ZERS10-6	18-August-71
B . M . FRANKLIN , J . P . HARDIMAN	ZEBRA EXPERIMENTAL RESULTS SHEET NO 10 / 7 BUCKLING MEASUREMENTS IN ZEBRA CORE 10	ZERS10-7	14-September-71
B . L . H . BURBIDGE , G . INGRAM , D . JOWITT , MISS M . P . SMITH , D . W . SWEET	ZEBRA EXPERIMENTAL RESULTS SHEET NO 10 / 8 REACTION RATE MEASUREMENTS IN ZEBRA CORE 10	ZERS10-8	20-September-71
B . L . BURBIDGE , MISS M . P . SMITH , G . INGRAM	ZEBRA EXPERIMENTAL RESULTS SHEET NO 10 / 9 REACTIVITY MEASUREMENTS WITH PLATE SAMPLES IN ZEBRA CORE 10	ZERS10-9	23-November-71
J . P . HARDIMAN , B . M . FRANKLIN	ANALYSIS OF ZEBRA CORE 10 TIME - OF - FLIGHT SPECTRUM MEASUREMENTS	ZERS10-10	January-73
B . L . H BURBIDGE , G . INGRAM , MISS M . P . SMITH	REACTION RATE SCANS USING FOILS IN THE CFR CONTROL ROD VERSION OF ZEBRA CORE 12 / 4	ZERS12-1	08-November-73
J . M . STEVENSON , S . F . SWOBODA	DESIGN CALCULATIONS WITH THE FD5 SET FOR ZEBRA 13- A FAST POWER REACTOR MOCK - UP WITH SINGULARITIES	ZTN 13-1	?
J . M . STEVENSON	DESCRIPTION OF THE STANDARD LOADING OF ZEBRA ASSEMBLY 13/1	ZTN13-2	?
MISS P . A . SMART	DESCRIPTION OF THE STANDARD LOADING OF ZEBRA ASSEMBLY 13/1	ZTN13-2ADD1	11-February-74
J . M . STEVENSON	ERRATUM IN ZTN 13/2 DESCRIPTION OF THE STANDARD LOADING OF ZEBRA ASSEMBLY 13/1	ZTN 13-2ERR	10-February-76
J . M . STEVENSON	PROPOSALS FOR THE ANALYSIS OF EXPERIMENTS IN ZEBRA CORE 13 BY STANDARD METHOD	ZTN13-3	?
M . D . CARTER , J . MARSHALL , MISS P . A . SMART	THE CONTROL ROD CALIBRATION IN ZEBRA ASSEMBLY 13/1	ZTN13-4	?

D . JOWITT , G . INGRAM	THE REACTIVITY CONTROLLED BY HYDROGENOUS SAMPLES IN ZEBRA CORE 13	ZTN13-5	21-December-73
P . J . COLLINS	CALCULATION OF K - EFFECTIVE FOR THE STANDARD LOADING OF ZEBRA ASSEMPBLY 13/1 AND A PRELIMINARY ESTIMATE FOR PFR	ZTN13-6	25-January-74
A . M . BROOMFIELD	THE EXPERIMENTAL REACTIVITY OF ZEBRA ASSEMBLY 13/1	ZTN13-7	13-February-74
A . M . BROOMFIELD , J . MARSHALL , MISS P . A . SMART	THE CONTROL ROD CALIBRATION IN ZEBRA ASSEMBLIES 13/2 AND 13/3	ZTN13-8	13-February-73
A . M . BROOMFIELD , J . MARSHALL , MISS P . A . SMART	THE RELATIVE WORTH OF B4C AND EU203 CONTROL RODS IN ZEBRA ASSEMBLY 13/1	ZTN13-9	19-February-74
J . MARSHALL	DATA FOR CFR TYPE ABSORBERS USED IN ZEBRA	ZTN13-10	09-April-74
J . M . STEVENSON	DESCRIPTION OF ASSEMBLIES USED IN FLUX TILT STUDIES ZEBRA CORE 13	ZTN13-11	29-March-74
A . M . BROOMFIELD , MISS P . A . SMART	THE EXPERIMENTAL REACTIVITY OF ZEBRA ASSEMBLIES 13/2 AND 13/3	ZTN13-12	22-May-74
D . JOWITT	THE REACTIVITY WORTH OF A PLUTONIUM SAMPLE AT THE CENTRE OF ASSEMBLY 13/3	ZTN13-13	10-April-70
J . M . STEVENSON , S. F . SWOBODA	CROSS - SECTION PREPARATION FOR ZEBRA 13 AND K - CALCULATIONS FOR ASSEMBLIES 13/1 AND 13/3	ZTN13-14	01-May-74
A . M . BROOMFIELD , MISS P . A . SMART	REACTIVITY CHANGES PRODUCED BY ENRICHMENT INCREASES IN CORE 13/1	ZTN 13-15	09-August-74
J . M STEVENSON	SODIUM REMOVAL MEASUREMENTS IN ZEBRA ASSEMBLY 13 - THE SECOND PFR MOCK - UP	ZTN13-16	30-May-74
B . L . H . BURBIDGE , G . INGRAM , MISS M . P . SMITH , MISS P . A . SMART , D . W . SWEET	REACTION RATE SCANS IN CENTRAL SINGULARITIES OF ZEBRA ASSEMBLY 13	ZTN13-17	11-July-74
D . JOWITT	PRELIMINARY MEASUREMENT OF THE BORON REACTION RATE IN RAISED PFR RODS IN ZEBRA	ZTN13-18	15-August-74
J . M . STEVENSON	DESCRIPTION OF FURTHER LOADINGS OF ZEBRA ASSEMBLY 13	ZTN13-19	19-September-74
J . P . HARDIMAN	THE ANALYSIS OF THE SODIUM REMOVAL EXPERIMENTS IN ZEBRA ASSEMBLY 13 (THE SECOND PFR MOCK - UP) - PART I	ZTN13-20	03-December-74
J . MARSHALL	MACROSCOPIC POWER DISTRIBUTIONS IN ZEBRA CORE 13	ZTN13-21RE	03-December-74
A . M . BROOMFIELD , MISS P . A . SMART , J . M . STEVENSON	MEASUREMENTS OF FUEL AND ABSORBER WORTHS AT CONTROL ROD AND GUIDE TUBE POSITIONS IN ZEBRA ASSEMBLY 13/1	ZTN13-22	19-November-74
J . M . STEVENSON , S . F . SWOBODA	ANALYSIS OF THE REACTIVITIES OF ASSEMBLIES 13/1 AND 13/3 AND OF REACTIVITY WORTH MEASUREMENTS IN ASSEMBLY 13/1	ZTN13-23	?
J . P . HARDIMAN	THE ANALYSIS OF THE SODIUM REMOVAL EXPERIMENTS IN ZEBRA ASSEMBLY 13 PART II SINGLE SUB - ASSEMBLIES ADJACENT TO A FULLY - INSERTED CONTROL ROD TO AN INNER CORE BREEDER SUB - ASSEMBLY	ZTN13-24	16-December-74
B . L . H . BURBIDGE , G . INGRAM , MISS M . P . SMITH , MISS P . A . SMART	REACTION RATE SCANS IN OFF - CENTRE SINGULARITIES IN ZEBRA ASSEMBLY 13/3	ZTN13-25	28-January-75

A . PACKWOOD	NEUTRON REACTION RATE MEASUREMENTS IN THE ZEBRA PFR MOCK - UP	ZTN13-26	December-74
J . M . STEVENSON , S . F . SWOBODA	A COMPARISON OF CALCULATED AND MEASURED REACTIVITIES FROM PU241 DECAY IN ZEBRA ASSEMBLY 13	ZTN13-27	01-April-75
J . P . HARDIMAN	THE ANALYSIS OF THE SODIUM REMOVAL EXPERIMENTS IN ZEBRA ASSEMBLY 13 - PART III VOIDING IN PLATE GEOMETRY	ZTN13-28	29-October-79
J . MARSHALL	A COMPARISON OF MEASURED AND CALCULATED REACTION RATES IN ZEBRA ASSEMBLY 13/7 (THICK U02 - NA BREEDER)	ZTN13-29	26-January-76
B . L . H . BURBIDGE , M . F . MURPHY , MRS M . P . SWEET , MISS P . A . SMART	REACTION RATE SCANS IN THE BREEDER SECTORS OF ASSEMBLY 13	ZTN13-30	16-January-78
J . M . STEVENSON , S . F . SWOBODA	REVISED ANALYSIS OF REATIVITY MEASUREMENTS IN ZEBRA 13 / 1	ZNT 13-31	12-April-76
J . MARSHALL	A COMPARISON OF MEASURED AND CALCULATED FISSION RATES IN ZEBRA ASSEMBLIES 13 / 8 AND 13 / 9 (U02 / PU02 / NA AND SIMULATED UC / NA BREEDERS)	ZTN13-32	04-June-76
J . MARSHALL	A COMPARISON OF MEASURED AND CALCULATED REACTION RATES IN CENTRAL SINGULARITIES IN ZEBRA ASSEMBLY 13	ZTN13-33	28-February-77
J . M . STEVENSON , S . F . SWOBODA	COMPARISON OF WORTHS OF A EU203 ABSORBER IN ZEBRA 13 (THE PFR MOCKUP)	ZTN13-34	29-March-77
J . MARSHALL	FURTHER CALCULATIONS OF BREEDER REACTION RATES IN ZEBRA ASSEMBLY 13-9	ZTN13-35	17-April-78
J . M . STEVENSON	COMPARISON OF REACTIVITY WORTHS OF ELEMENTS CONTAINING SODIUM AND STEEL IN DIFFERENT FRACTIONS IN ASSEMBLY 14/2	ZTN14-1	23-May-75
B . L . H . BURBIDGE , MISS P . A . SMART , J . M . STEVENSON	THE CONTROL ROD WORTHS IN ZEBRA ASSEMBLY 14	ZTN14-2	26-June-75
M . F . MURPHY , B . L . H . BURBIDGE , W . H . TAYLOR , J . GRATTAN	THE MEASUREMENT OF EU REACTION RATES IN EU203 AND POLYPROPYLENE MODERATED EU203 CONTROL RODS	ZTN14-3	31-July-75
B . L . H . BURBIDGE , MISS P . A . SMART	DESCRIPTION OF ZEBRA ASSEMBLY 14	ETN14-4	19-August-75
A . H . TAYLOR , D . W . SWEET , M . F . MURPHY , J . GRATTAN , M . R . MARCH	ABSOLUTE DETERMINATIONS OF THE RATES OF THE CO-59 (n , x) CO-60 AND CR-50 (n ,) CR-51 REACTIONS IN THE CORE AND BREEDER REGIONS OF ZEBRA ASSEMBLY 14	ZTN14-5	19-September-75
W . H . TAYLOR , D . W . SWEET , J . GRATTAN , M . F .MURPHY , M . R . MARCH	MEASUREMENT OF THE ABSOLUTE RATE OF THE K-41 (n , p) AR-41 REACTION IN A FAST REACTOR SPECTRUM	ZTN14-6	05-November-75
W . H . TAYLOR , J . GRATTAN , D . W . SWEET , M . F . MURPHY , M . R . MARCH	- RAY ACTIVITY FROM TYPICAL FAST REACTOR STEEKS AFTER IRRADIATION IN THE CORE CENTRE REGION OF ZEBRA ASSEMBLY 14	ZTN14-8	26/11/1975
G . INGRAM , D . W . SWEET , B . L . H . BURBIDGE	TEMPERATURE MEASUREMENTS IN CORE 14	ZTN14-9	29-January-76
D . W . SWEET , MISS P . A . SMART	MEASUREMENT OF POWER DISTRIBUTION ADJACENT TO AN SB/BE NEUTRON SOURCE AT THE CENTRE OF ZEBRA CORE 14	ZTN14-10	12-October-76
G . INGRAM	DESCRIPTION OF THE STANDARD LOADING OF CORE 22	ZTN22-1	26-March-81

G . INGRAM	SUMMARY OF K - VALUE RELATED DATA FOR CORES 22 AND 23	ZTN22-2	09-September-81
J . MARSHALL , P . M . J . STONE	CALIBRATION OF CONTROL RODS IN CORE 22	ZTN22-3	December- 81
J . M . STEVENSON , S . E . JOHNSON	SODIUM - VOID AND MATERIAL WORTH MEASUREMENTS IN CORE 22 - THE CADENZA PLATE CORE	ZTN22-4	05-March-82
S . E . JOHNSON , J . M . STEVENSON	MATERIAL WORTH MEASUREMENTS IN CORE 24 -THE CADENZA VOIDED PLATE CORE	ZTN22-5	May-82
S . E . JOHNSON , J . M . STEVENSON	MATERIAL WORTH MEASUREMENTS IN ZEBRA 23 AND 25 - THE CADENZA PIN CORES	ZTN22-6	July-82
S . E . JOHNSON	FIRST CALCULATIONAL STUDIES FOR THE CADENZA ASSEMBLIES	ZTN22-7	12-August-82
J . M . STEVENSON , S . E . JOHNSON	CELL HETEROGENEITY AND SAMPLE WORTH MEASUREMENTS AT THE CENTRE OF ZEBRA	ZTN22-8	October-82
B . L . H . BURBIDGE , M . F . MURPHY , MISS P . A . SMART	REACTION - RATE RATIO MEASUREMENTS IN THE FISSILE REGION OF ZEBRA ASSEMBLY 22A	ZTN22-9	January-83
B . L . H . BURBIDGE , A . D . KNIPE , J . M . STEVENSON	SUMMARY OF FURTHER K-VALUE RELATED DATA FOR THE CADENZA ASSEMBLIES	ZTN22-10	?
MISS P . A . SMART	DESCRIPTION OF CADENZA PLATE ASSEMBLIES 22 AND 24	ZTN22-11	June-84
J . M . STEVENSON , S . E . JOHNSON , B . M . FRANKLIN , MISS A . M . OSMOND	ANALYSIS OF THE CADENZA ASSEMBLIES	ZTN22-13	31-August-84
MISS A . M . OSMOND , B . L . H . BURBIDGE	COMPARISON OF MEASURED AND CALCULATED REACTION RATES TO DEMONSTRATE CELL HETEROGENEITY IN ZEBRA ASSEMBLY 22C	ZTN22-14	?
B . L . H . BURBIDGE , MISS A . M . OSMOND, J . M . STEVENSON	MEASUREMENT AND ANALYSIS OF REACTION RATES IN SIMULATED PFR DEMOUNTABLE SUBASSEMBLY HEATER - PINS IN ZEBRA	ZTN22-15	April-85